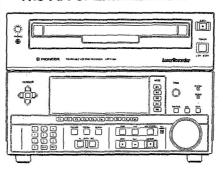
(!) PIONEER

The Art of Entertainment

Service



ORDER NO. **RRV1007**

REWRITABLE VIDEODISC RECORDER

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Туре	Model VDR-V1000A	Power Requirement	Remarks		
KU/CA	0	AC120V			

CONTENTS

1.	SAFETY INFORMATION	2
	EXPLODED VIEWS AND PARTS LIST	
	PACKING AND PARTS LIST	. 33
4.	SCHEMATIC AND PCB CONNECTION	
	DIAGRAMS	
	PCB PARTS LIST	
	SERVICE MODE	
7.	PANEL FACILITIES	235
Q	SPECIFICATIONS	242

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A. PIONEER ELECTRONICS OF CANADA, INC. 300 Allstate Parkway Markham, Ontario L3R 0P2 Canada PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONIC SUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911
© PIONEER ELECTRONIC CORPORATION 1993

1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void

the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

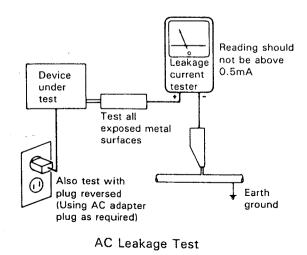
-(FOR USA MODEL ONLY)-

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

МЕМО						
-						
	•					
				•		
			· · ·			

2. EXPLODED VIEWS AND PARTS LIST

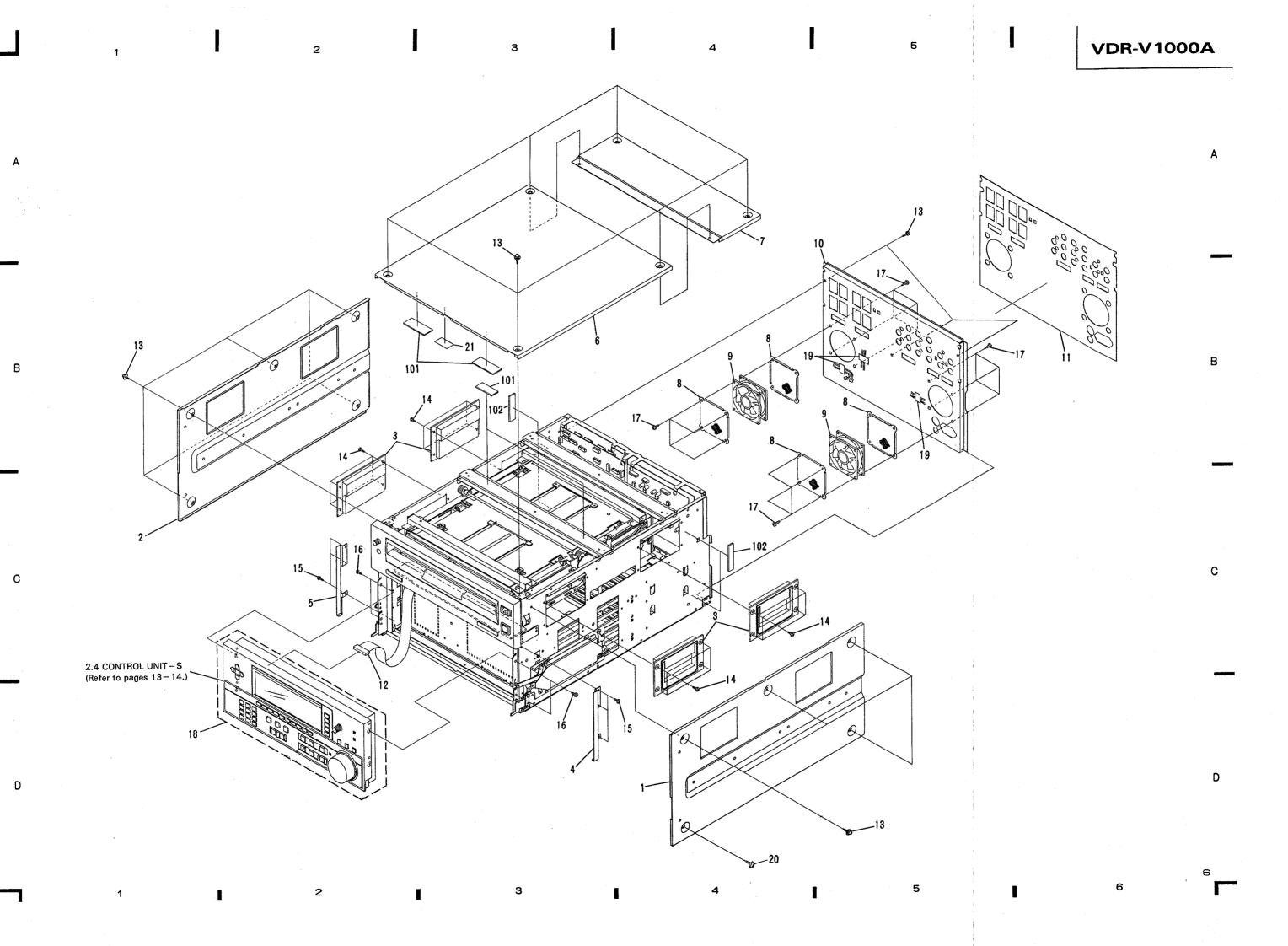
NOTES:

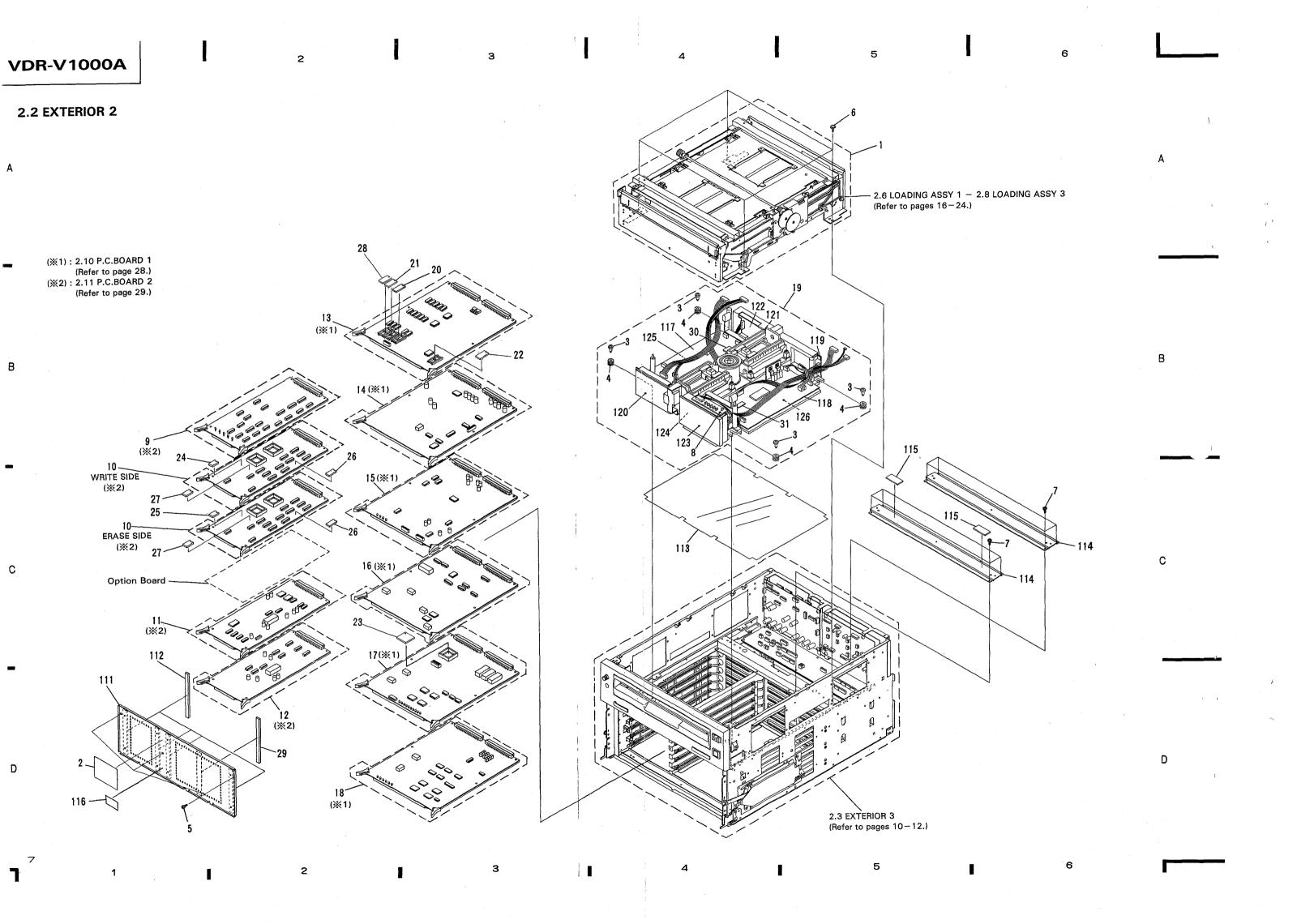
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

2.1 EXTERIOR 1

Parts List of Exterior 1

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
-	1	SIDE PANEL (R)	DNE1136	NSP	101	SPACER RUBBER	DEB1171
	2	SIDE PANEL (L)	DNE1137	NSP	102	SIDE SPACER	DEB1178
	3	HANDLE	DMX1003				
	4	FRONT STAY R	DNE1138				
	5	FRONT STAY L	DNE1139				
	6	TOP PANEL (A)	DNE1135				
	7	TOP PANEL (B)	DNE1140				
	8	FAN FILTER	DNH1548				
Ŋ	9	FAN MOTER	DXM1048				
	10	REAR PANEL	DNC1183				
	11	REAR INDICATING SHEET	DAH1734				
	12	FRONT PANEL CONNECTOR Assy	DKP2157				
	13	SCREW	FMT40P060FZK				
	14	SCREW	BMZ40P080FMC				
	15	SCREW	BBZ30P050FZK				
	16	SCREW	AMZ30P060FZK				
	17	SCREW	PBZ50P100FZK				
•	18	CONTROL UNIT-S	DXX2137				
	19	SHEET	VEX1022				
	20	SCREW	BMZ40P100FZK				
	21	65 LABEL	ORW1069				





Parts List of Exterior 2

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
•	1	LOADING MECHA Assy-S	DXX1784	NSP	111	COVER PLATE Assy	DXB1375
•	2	POSITION LABEL	DRW1314	NSP		STOPPER RUBBER	DEB1170
	3	FLOAT SCREW B	VBA1013	NSP		INSULATION SHEET	DEC1481
	4	FLOAT RUBBER A	VEB1095	NSP		BRIDGE	DND1096
	5	SCREW	FMT40P060FZK	NSP		SPACER RUBBER	DEB1171
	6	SCREW	PMB40P080FMC	NSP	116	CAREER LABEL	VRW-348
	7	SCREW	BBZ30P060FMC	NSP	117	SVAW Assy	DWP1035
	8	SENS Assy	DWX1217	NSP	118	SVAE Assy	DWP1036
	9	SPDL UNIT-S	DWX1344	NSP	119	HE-W Assy	DWF1002
$leve{left}$	10	ADDC UNIT-S	DWX1428	NSP	120	HE-E Assy	DWF1003
	11	VAR1 UNIT-S	DWX1369			APC1W Assy	DWP1031
\odot	12	VAR2 UNIT-S	DWX1347	NSP	122	APC2W Assy	DWP1032
\circ	13	MPU UNIT-S	DWX1339	NSP	123	APC1E Assy	DWP1033
\bullet	14	AMOD UNIT-S	DWX1348	NSP	124	APC2E Assy	DWP1034
•	15	ADEM UNIT-S	DWX1340	NSP	125	DRVW Assy	DWP1037
•	16	VAPB UNIT-S	DWX1367	NSP	126	DRVE Assy	DWP1038
$\widecheck{lacktrian}$	17	VDEC UNIT-S	DWX1368				
\check{ullet}	18	VENC UNIT-S	DWX1427				
O	19	SERVO MECHA Assy-S	DXX2151				
	20	Programed to 27C256AK-10 (IC102)	DYW1306				
	21	Programed to 27C256AK-10	DYW1307				
	o io	(IC103)	D777774440				
	22	Programed to 27C256AK-12 (IC502)	DYW1148				
	23	Programed to HD647180X0CP6 (IC37)	DYW1311				
	24	P-ROM for A UNIT (IC20)	DYW1162				
	25	P-ROM for B UNIT (IC20)	DYW1163				
	26	PLD (ADDC) (IC7)	DYW1164				
	27	P-ROM A/B (IC6)	DYW1161				
	28	Programed to 27C256AK – 10 (IC104)	DYW1308				
	29	GEL	DEC1657				
	30	Programed to TIBPAL16L8 (IC106)	DYW1150				
	31	Programed to TIBPAL16L8 (IC606)	DYW1155				

2.3 EXTERIOR 3

Parts List of Exterior 3

Mark	No.	Description	Parts No.
⚠	1	PSY Assy	DWR1148
	*	(Switching Regulator)	
	2	CAP (For leg)	DEC1190
lacksquare	3	FPCN Assy	DWX1211
⚠	4	POWER SWITCH (S1)	DSA1010
<u>^</u>	5	CAPACITOR (C1, C2)	RCG-009
⚠	6	CIRCUIT PROTECTER	DST1001
⚠	7	NOISE FILTER (Inlet Type)	DTX1002
	8	COVER (For P. C. Board)	DEC1443
	9	EARTH TERMINAL	DKE-101
	10	SCREW	IBZ30P080FCC
	11	SCREW	BBZ30P060FMC
	12	SCREW	PMB40P080FMC
	13	SCREW	PMH30P080FMC
	14	SCREW	PMH40P160FMC
	15	SCREW	BBZ40P080FMC
	16	SCREW	BBZ30P080FZK
	17	SCREW	PMB40P080FMC
	18	CONNECTOR Assy	DKP2297
	19	EARTH LAG	DDX1112
	20	WIRE Assy	DDX1113
	21	CONNECTOR Assy	DKP2296
NSP	101	BOTTOM PLATE Assy	DXA1290
NSP	102	FRONT PLATE	DNH1716
NSP	103	MECHA FRAME	DND1095
NSP	104	POWER SWITCH COVER	DNF1394
NSP	105	NYLON RIVET	DEC-117
NSP	106	ACI HOLDER	DNF1358
NSP	107	EDGE GUARD A	DEB1184
NSP	108	EDGE GUARD B	DEB1185

10

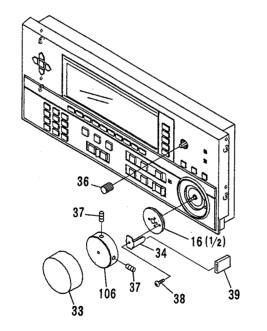
2.4 CONTROL UNIT - S

Parts List of Control Unit - S

i ai to	E10 t \	o, control cint					
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	BACK PANEL Assy	DXA1294	NSP	101	VOLUME PLATE	DNF1331
	2	FR1 Assy	DWG1369	NSP		LENS	PNY-583
	3	FR2M Assy	DWG1227	NSP		DISPLAY WINDOW	DAH1561
		FR2S Assy	DWG1228	NSP		DISPLAY PLATE	DNF1332
	4		DWG1228 DWG1223	NSP		CONTROL PANEL Assy	DXA1474
	5	FR3 Assy	DWG1223	NSP	100	CONTROL PANEL Assy	DAA1414
	6	EL DISPLAY	DAW1014	NSP	106	DIAL (CLUTCH)	DLA1448
	7	RUBBER SHEET (S)	DEB1165				
	8	RUBBER SHEET (M)	DEB1167				
	9	CARD EDGE SPACER	DEC1394				
	10	TEN KEY	DNV1002				
	11	MODE KEY	DNV1003				
	12	CURSOR KEY	DNV1004				
	13	FUNCTION KEY	DNV1001				
	14	ROTARY ENCODER	DXP1023				
	15	CLUTCH SPRING	DBK1058				
	10	CLOTCH SI KING	DDICTOOO				
	16	CLUTCH Assy	DXB1310				
	17	JOG Assy	DWG1229				
	18	DISC SLIT	DXB1302				
	19	FRONT PANEL	DKP2158				
	13	CONNECTOR Assy				•	
	20	FRONT PANEL	DKP2159	● C	ontro	I Panel Assy Side	
	40	CONNECTOR Assy	D111 2100				
		CONNECTOR Assy					
	21	FRONT PANEL	DKP2160				
		CONNECTOR Assy				1	
	22	FRONT PANEL	DKP2161				
		CONNECTOR Assy				df.	
	23	SCREW	AMZ30P060FZK			90	
	24	SCREW	IPZ30P060FCU				_
	25	SCREW	PMH20P100FMC				
	20	SCREW	111111111111111111111111111111111111111			L BROOM	
	26	SPACER	DBA1035			2	
	27	CONTROL PANEL Assy-S	DXX1712			2 2020 3	
	28	Programed to XC1736 (IC9)	DYW1242				1 1 1
	29	Programed to P85C220-D	DYW1240				(D',
	20	(IC11)				36	
	30	Programed to P85C220-D	DYW1241			30	
	50	(IC12)	2 1,1222				
		(1012)				37	
	31						
	32	Programed to UPC27C1001	DYW1310				16 (1/2)
		(IC14)	-			34	
	33	RUBBER DIAL	DNV1006			())	
	34	STOPPER (CLUTCH)	DNF1444			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	3 4 35	STOFFER (CLUTCH)	DIN TIII			106 37	`aa 39
	ან	***************************************				\	38 39

DNK2019 SMZ26H060FBT PMB30P060FMC

DEB1243 RNH-184



● Back Panel Assy Side 29:※2 В 27(1/2) ※1 : Attachment for No. 14 (Rotary encoder) $\frak{\%}2$: These IC are not included in CONTROL UNIT – S.

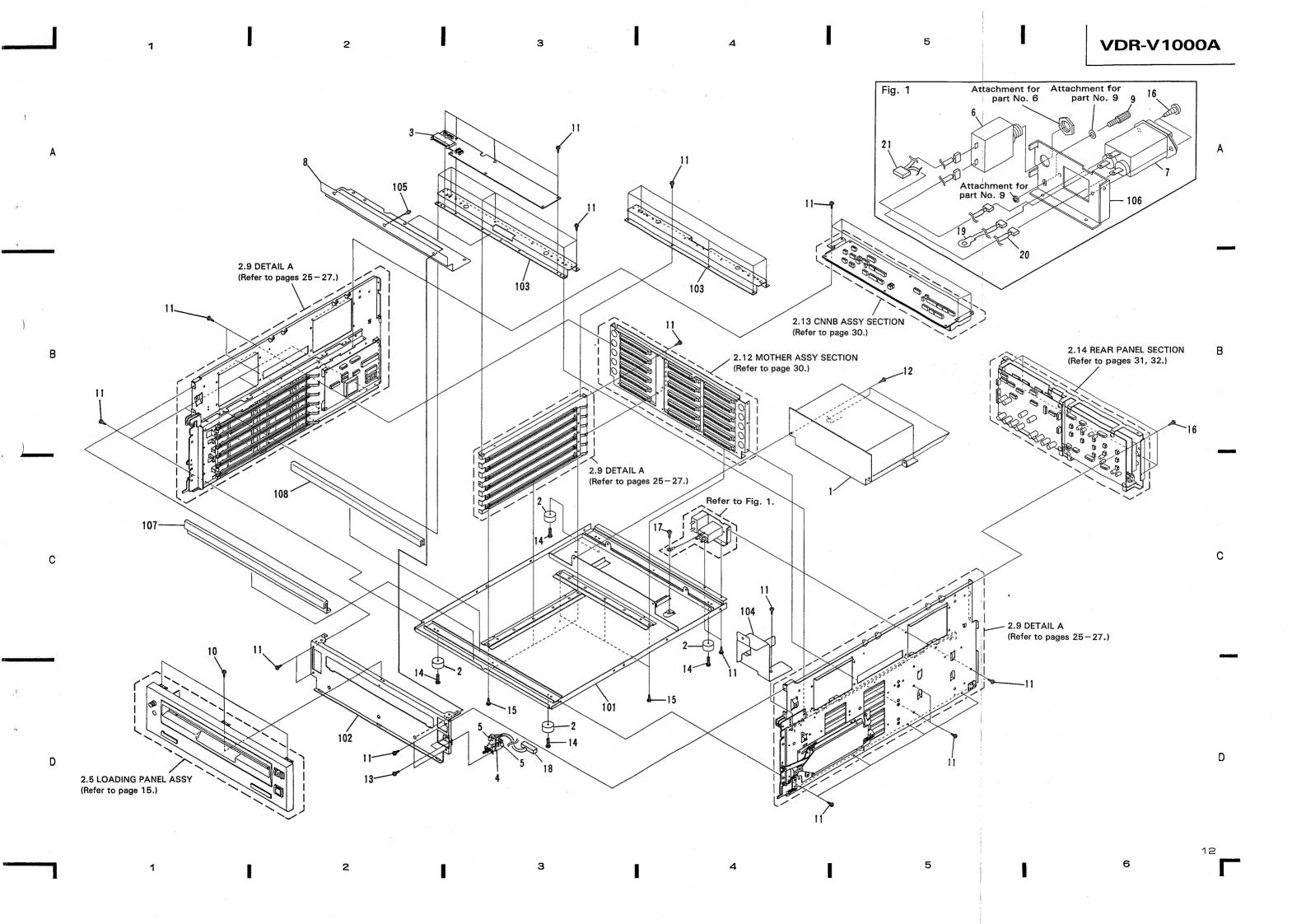
2

13

KNOB (VOLUME)

STOPPER RUBBER CORD CLAMPER

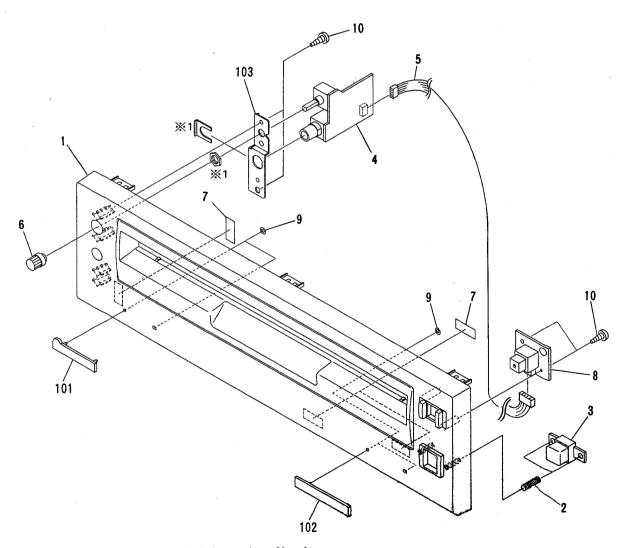
BOLT SCREW



2.5 LOADING PANEL ASSY

Parts List of Loading Panel Assy

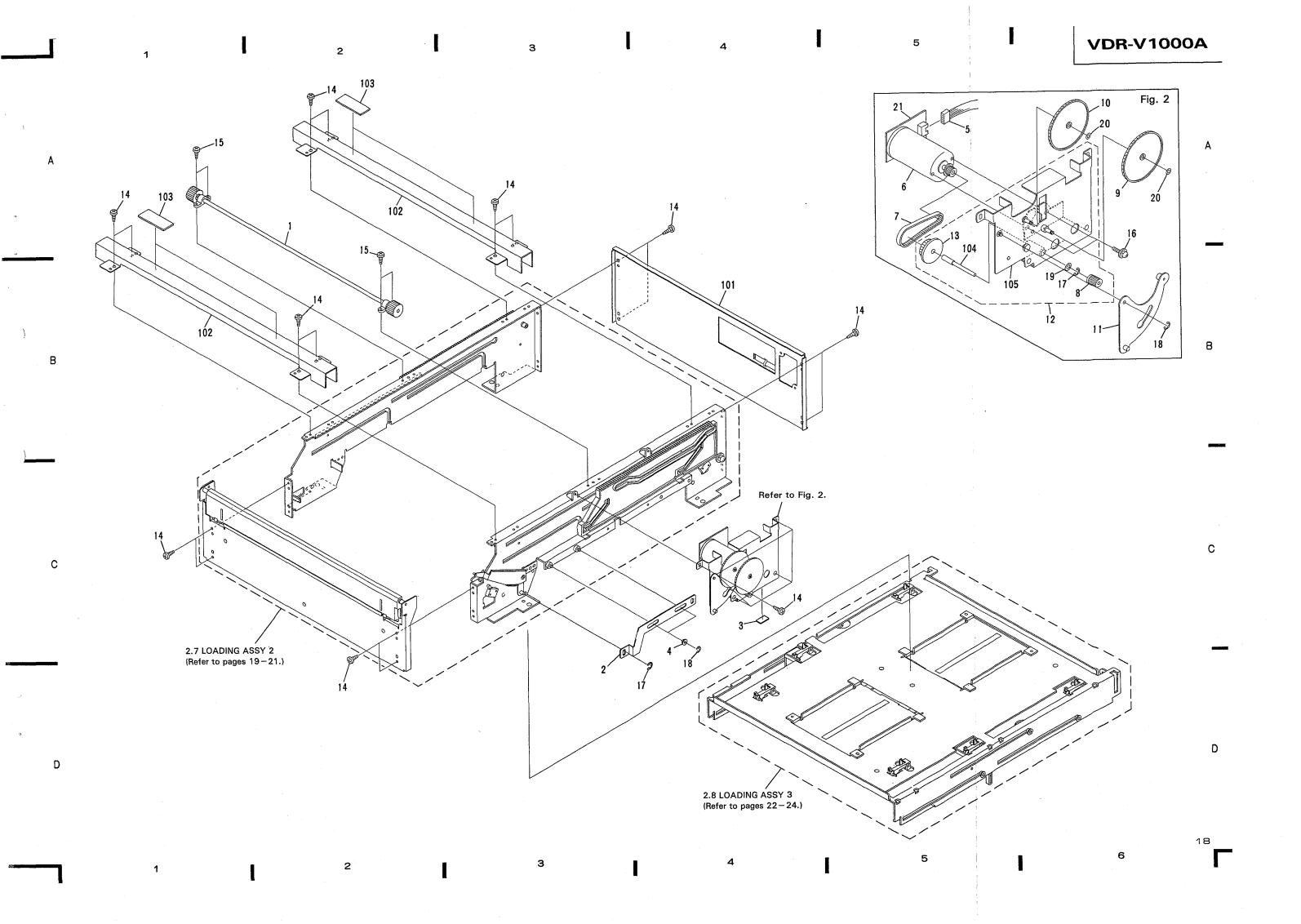
Mark	No.	Description	Parts No.
	-	LOADING PANEL	DNK2843
	1		
	2	SPRING (Power Button)	VBH - 150
	3	BUTTON (Power)	DNK2018
	4	HPA Assy	DWK1022
	5	CONNECTOR Assy	DKP2080
	6	ROTARY KNOB B	DAA1005
	7	SHEET	VEX1022
	8	REJ SW Assy	DWX1210
	9	STOPPER RING	YS24FBT
	10	SCREW	IPZ30P060FCU
3.70D	404	NAMES OF ACTS	DAM1026
NSP	101	NAME PLATE	
NSP	102	BADGE	DAM1027
NSP	103	HEADPHONE PLATE	DNF1330

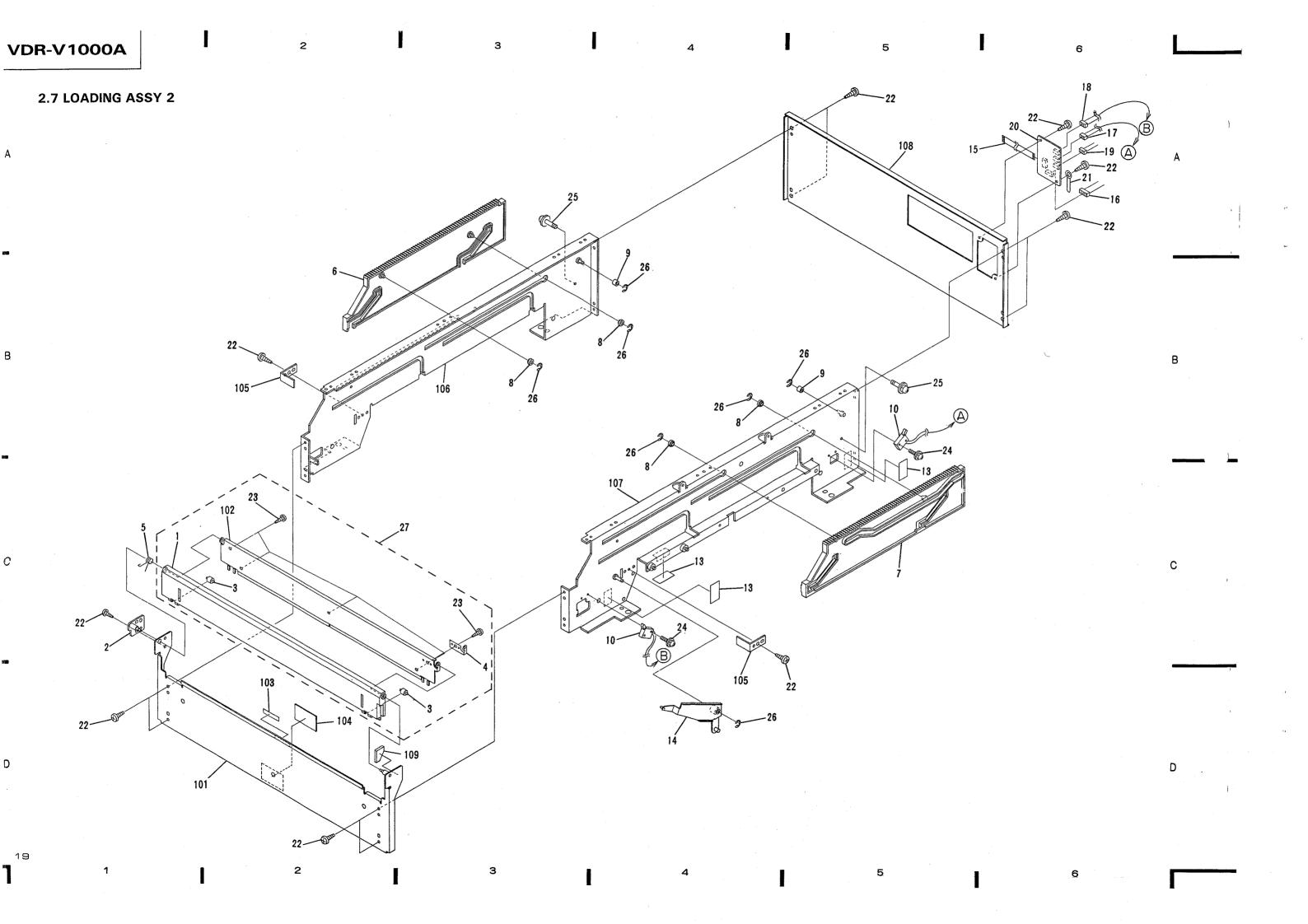


2.6 LOADING ASSY 1

Parts List of Loading Assy 1

Mark	No.	Description	Parts No.
	1	SYNCRO SHAFT Assy	DXB1344
	2	DOOR LINK	DNH1576
	3	SHEET	VEX1022
	4	LINK ROLLER	DLA1495
	5	CONNECTOR Assy	DKP2038
	6	MOTOR	DXM1044
	7	S2M TIMING BELT	DMS1006
	8	GEAR (A)	VNL1020
	9	GEAR (B)	DNK2036
	10	GEAR (C)	DNK2037
	11	CAM LEVER Assy	DXB1348
	12	GEAR Assy-S	DXX1709
	13	PULLEY	DNK1620
	14	SCREW	BBZ30P060FMC
	15	SCREW	IBZ30P080FCC
	16	SCREW	PMB30P060FMC
	17	E RING	YE25FUC
	18	E RING	YE20FUC
	19	WASHER	WA32D060D050
	20	WASHER	WT26D060D050
	21	MCNB Assy	DWX1218
	101	REAR PLATE	DND1099
NSP		TOP FRAME	DND1100
NSP		CUSHION	VEC1004
NSP		GEAR (A) SHAFT	DLA1492
NSP	105	M HOLDER Assy	DXB1331





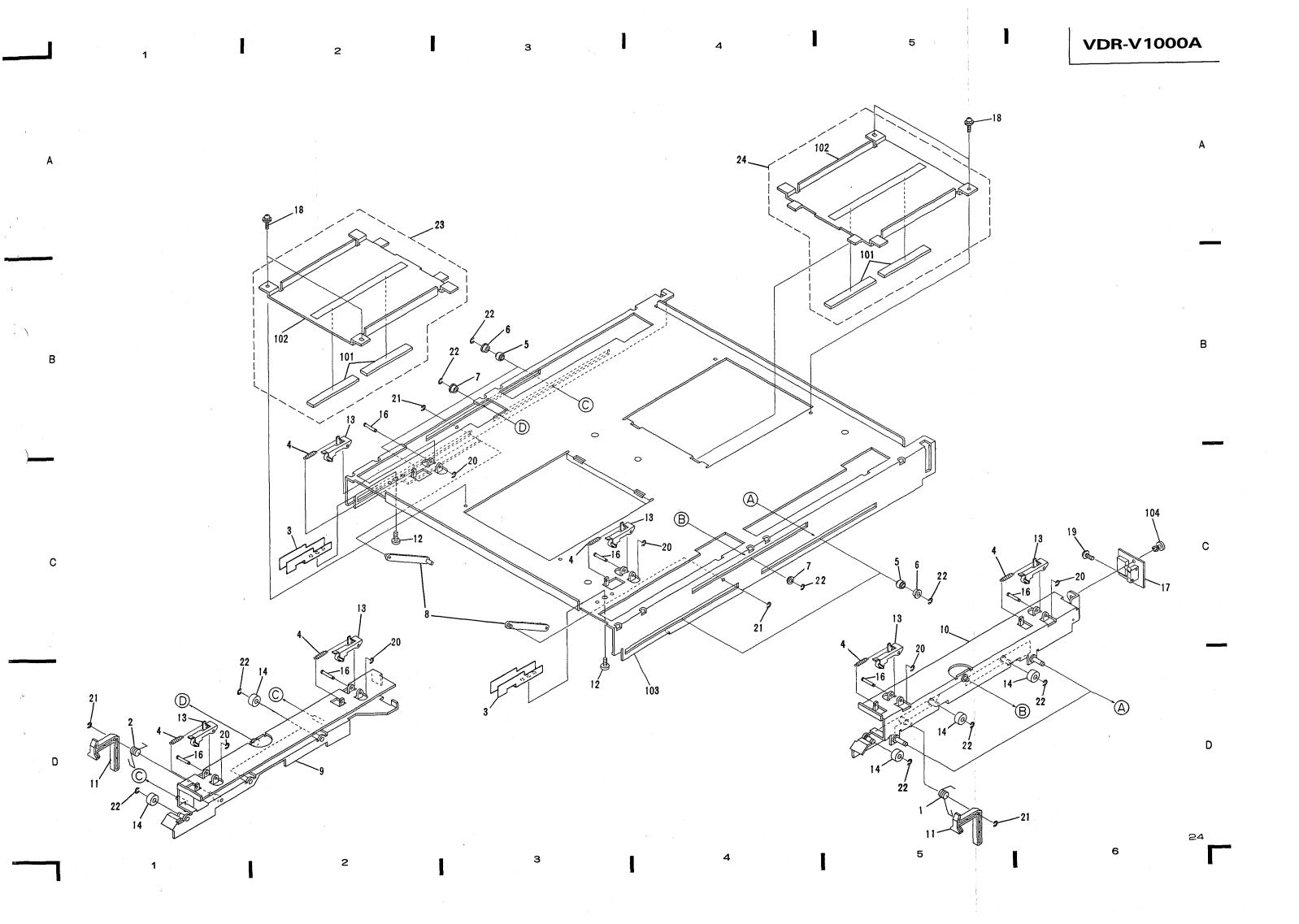
Parts List of Loading Assy 2

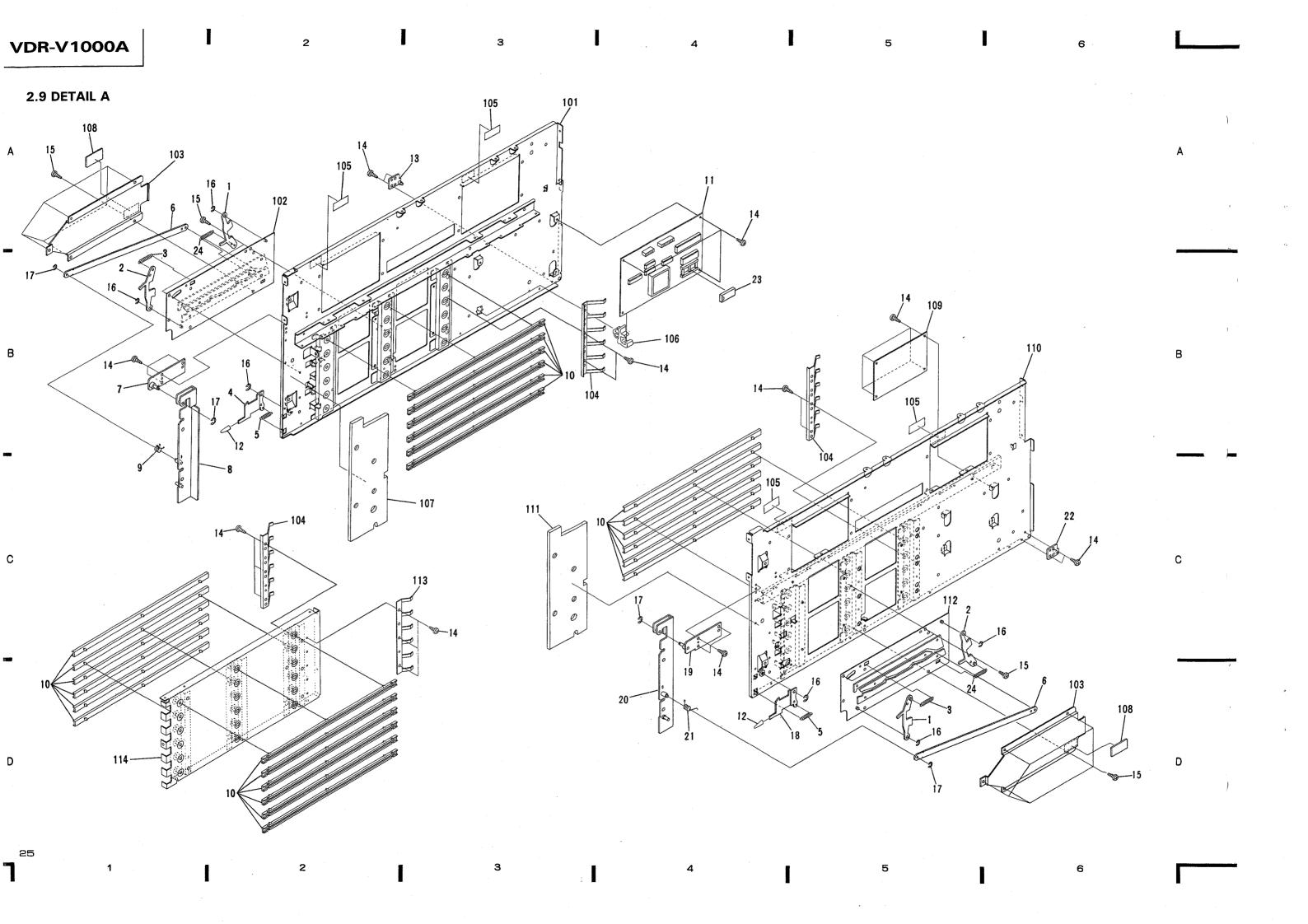
Mark	No.	Description	Parts No.
	1	DOOR	DNK2038
	$\overline{2}$	DOOR FULCRUM BOARD Assy	DXB1321
	3	ROLLER	VNL1042
	4	DOOR EARTH PLATE	DBK1062
	5	DOOR SPRING	DBH1163
	6	RACK (L)	DNK2044
	7	RACK (R)	DNK2043
	8	ROLLER (C)	DLA1491
	9	ROLLER (E)	DLA1494
	10	LEVER SWITCH (S102, S103)	RSK1002
	11	***************************************	
	12		
	13	SHEET	VEX1022
	14	DOOR ARM Assy	DXB1329
<u>^</u>	15	FLEXIBLE CORD (08P)	DDD1059
	16	CONNECTOR Assy	DKP2035
	17	CONNECTOR Assy	DKP2036
	18	CONNECTOR Assy	DKP2037
	19	CONNECTOR Assy	DKP2038
	20	SCNB Assy	DWX1216
	21	BINDER	VNF-069
	22	SCREW	BBZ30P060FMC
	23	SCREW	BPZ20P040FMC
	24	SCREW	PMH20P100FMC
	25	SCREW (B)	PBA1014
	26	E RING	YE25FUC
	27	DOOR Assy – S	DXX1767
NSP	101	DOOR HOLDER Assy	DXB1325
NSP	102	DOOR REINFORCEMENT BOARD	DNH1559
NSP	103	CUSHION RUBBER	DEB1173
NSP	104	SPACER RUBBER	DEB1171
NSP	105	RELEASE PLATE	DNH1561
NSP	106	RACK PLATE (L) Assy	DXB1324
NSP	107	RACK PLATE (R) Assy	DXB1323
NSP	108	REAR PLATE	DND1099
NSP	109	ARM STOPPER	DEB1188

2.8 LOADING ASSY 3

Parts List of Loading Assy 3

Mark	No.	Description	Parts No.
	1	LOCK SPRING R	DBH1160
	2	LOCK SPRING L	DBH1161
	3	DOOR STOPPER	DNH1622
	4	HOLD SPRING	DBH1164
	5	ROLLER (A)	DLA1489
	6	ROLLER (B)	DLA1490
	7	ROLLER (C)	DLA1491
	8	S PLATE Assy	DXB1330
	9	CASE HOLDER (L) Assy	DXB1327
	10	CASE HOLDER (R) Assy	DXB1326
	11	LOCK	DNK2041
	12	SCREW	BBZ30P060FMC
	13		DXB1328
	14	GUIDE ROLLER B	DNK1017
	15		
	16	SHAFT	DLA1493
	17	CASW Assy	DWX1219
	18	SCREW	PMB30P060FMC
	19	SCREW	PMH20P100FMC
	20	E RING	YE15FUC
	21	E RING	YE20FUC
	22 [.]	E RING	YE25FUC
	23	MAGNET Assy (F) - S	DXX1710
	24	MAGNET Assy (R)-S	DXX1711
NCD	101	C MAGNET/35H	OMF1007
NSP		•	DNH1558
NSP		YOKE PLATE	DNH1558 DNH1552
NSP		MAGNET HOLDER NYLON RIVET	DNH1552 DEC-117
NSP	104	NILON KIVEI	DEC-117



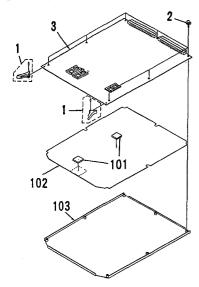


Parts List of Detail A

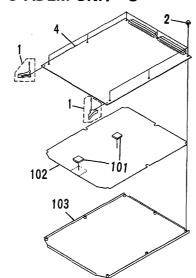
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	RATCHET LEVER (R) Assy	DXB1349	NSP	101	SIDE FRAME (L) Assy	DXB1312
	2	RATCHET LEVER (L) Assy	DXB1350	NSP	102	CAM BASE (L) Assy	DXB1484
	3	RATCHET SPRING A	DBH1173	NSP	103	STAY COVER	DNH1584
	4	EJECT LEVER L	DNH1572	NSP	104	EARTH PLATE A	DBK1059
	5	EJECT LEVER SPRING	DBH1175	NSP	105	SPACER	DEC1440
	6	SPRING UP STAY Assy	DXA1515	NSP	106	PCB HOLDER	DEC1442
	7	STAY HOLDER (L) Assy	DXB1340	NSP	107	SIDE COVER L	DEB1183
	8	PANEL HOLDER (L) Assy	DXA1305	NSP	108	STAY COVER SPACER	DEB1186
	9	STAY SPRING L	DBH1177	NSP	109	ACCN Assy	DWX1252
	10	GUIDE RAIL	DEC1393	NSP	110	SIDE FRAME (R) Assy	DXB1311
	11	422IF Assy	DWG1230	NSP	111	SIDE COVER R	DEB1182
	12	LEVER CAP	DEB1177	NSP	112	CAM BASE (R) Assy	DXB1483
	13	FULCRUM BOARD (L) Assy	DXB1319	NSP	113	EARTH PLATE B	DBK1060
	14	SCREW	BBZ30P060FMC	NSP	114	CENTER BOARD Assy	DXB1313
	15	SCREW	BBZ30P050FZK				
	16	E RING	YE30FUC				
	17	E RING	YE20FUC				
	18	EJECT LEVER R	DNH1571				
	19	STAY HOLDER (R) Assy	DXB1339				
	20	PANEL HOLDER (R) Assy	DXA1304				
	21	STAY SPRING R	DBH1176				
	22	FULCRUM BOARD (R) Assy	DXB1318				
	23	Programed to 27C256AK-12 (IC103)	DYW1309				
	24	RATCHET SPRING B	DBH1202				

2.10 P. C. BOARD 1

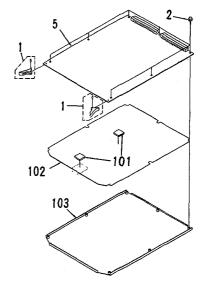
● MPU UNIT - S



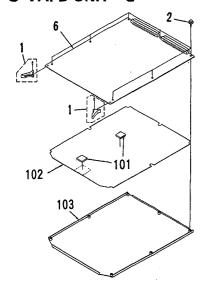
● ADEM UNIT-S



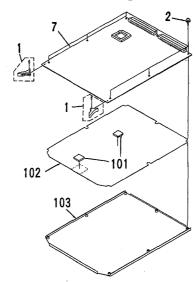
● AMOD UNIT - S



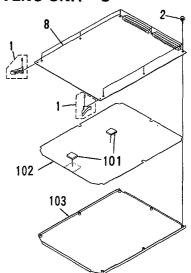
● VAPB UNIT - S



● VDEC UNIT - S



● VENC UNIT - S

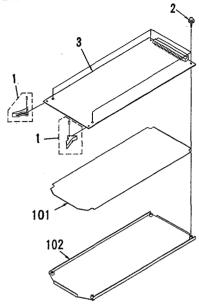


Parts List of P. C. Board 1

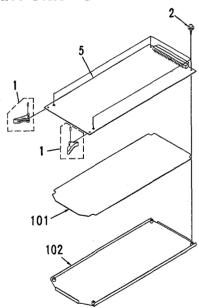
Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	EJECTOR	DEC1399		7	VDEC Assy	DWV1133
	2	SCREW	PMH30P080FMC		8	VENC Assv	DWV1084
	3	MPU Assy	DWG1344		-		27772002
	4	ADEM Assy	DWK1038				
	5	AMOD Assy	DWK1039		101	PCB SPACER	DEB1174
	6	VAPB Assy	DWV1126	NSP NSP	102 103	INSULATION SHEET A PCB HOLDER (A) Assy	DEC1383 DXB1320

2.11 P. C. BOARD 2

• SPDL UNIT - S



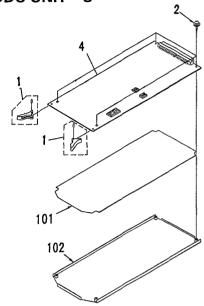
● VAR1 UNIT-S



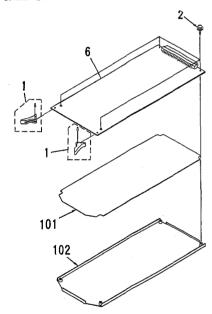
Parts List of P. C. Board 2

Mark No	. Description	Parts No.	Mark	No.	Description	Parts No.
1	EJECTOR	DEC1399		6	VAR2 Assy	DWV1128
2 3	SCREW SPDL Assy	PMH30P080FMC DWS1190				
4 5	ADDC Assy VAR1 Assy	DWP1042 DWV1127	NSP NSP	101 102	INSULATION SHEET B PCB HOLDER (B) Assy	DEC1384 DXB1322

● ADDC UNIT - S



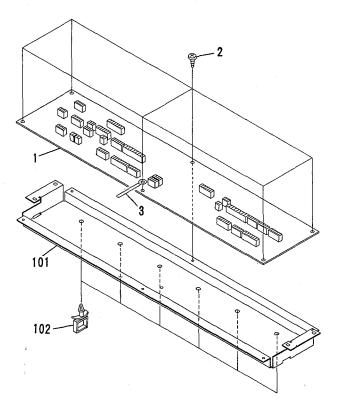
● VAR2 UNIT - S



2.12 MOTHER ASSY SECTION

Parts List of Mother Assy Section

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
·	1	MOTHER Assy	DWX1213	NSP	101	MOTHER INSULATION SHEET	DEC1382
	2	CONECTOR Assy	DKP2051	MOD	100	MOTHER INSTALL BOARD A	DNF1342
	3	CONECTOR Assy	DKP2052	NSP	102 103	BINDER	PEC-107
	4	CONECTOR Assy	DKP2066	NSP	103	DINDER	120 100
	5	CONECTOR Assy	DKP2071				
	6	SCREW	BBZ30P060FMC		/	4	103 7
2 1	3 CN	102 OOO	101	Y. W.			2 3 5
2.13	3 CN	INB ASSY SECTION					
			7				



Parts List of CNNB Assy Section

Mark	No.	Description	Parts No.
	1	CNNB Assy	DWX1214
	2	SCREW	BBZ30P060FMC
	3	CORD STOPPER	VNF-069
NSP	101	MOTHER INSTALL BOARD B	DNF1344
NSP	102	WIRE SADDLE	DEC1450

2.14 REAR PANEL SECTION

N

					Parts A Mark
	16 17 18 19 20	11 12 13 14 15	6 7 8 9	12240	No.
	CONNECTOR Assy CONNECTOR Assy CONNECTOR Assy CONNECTOR Assy CONNECTOR Assy	SCREW CANON CONNECTOR 3P RECEPTACLE CONNECTOR Assy CONNECTOR Assy	TBCIF Assy 422CN Assy JOINT BOLT SCREW SCREW	VDIF Assy AUIF1 Assy AUIF2 Assy AUCN Assy VDCN Assy	Mark No. Description
	DKP2070 DKP2072 DKP2078 DKP2263 DKP2069	PMA30P060FZK DKN1046 PKP1004 DKP2079 DKP2083	DWG1232 DWX1212 DBA1037 BBZ30P060FMC PMZ26P040FNI	DWV1083 DWK1020 DWK1021 DWX1253 DWV1082	Parts No.
		NSP			Mark
		101	26 27 28 29	21 22 23 24 25	No.
		TERMINAL BOARD A	CERAMIC CAPACITOR (C101, C102) CONNECTOR Assy CONNECTOR Assy JOINT BOLT	CONNECTOR Assy DKP2067 DKP2067 DKP2067 DKP2067	Description
26		DNC1184	CGDYX473M25 DKP2081 DKP2082 DBA1038	DKP2068 DKP2054 DKP2065 DKP2067 DKP2138	Parts No.
	27	3			

0

O

თ

ഗ

10a 0a

3. PACKING AND PARTS LIST

VDR-V1000A

- NOTES:
 Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 The marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 The parts found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 Parts marked by "®" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

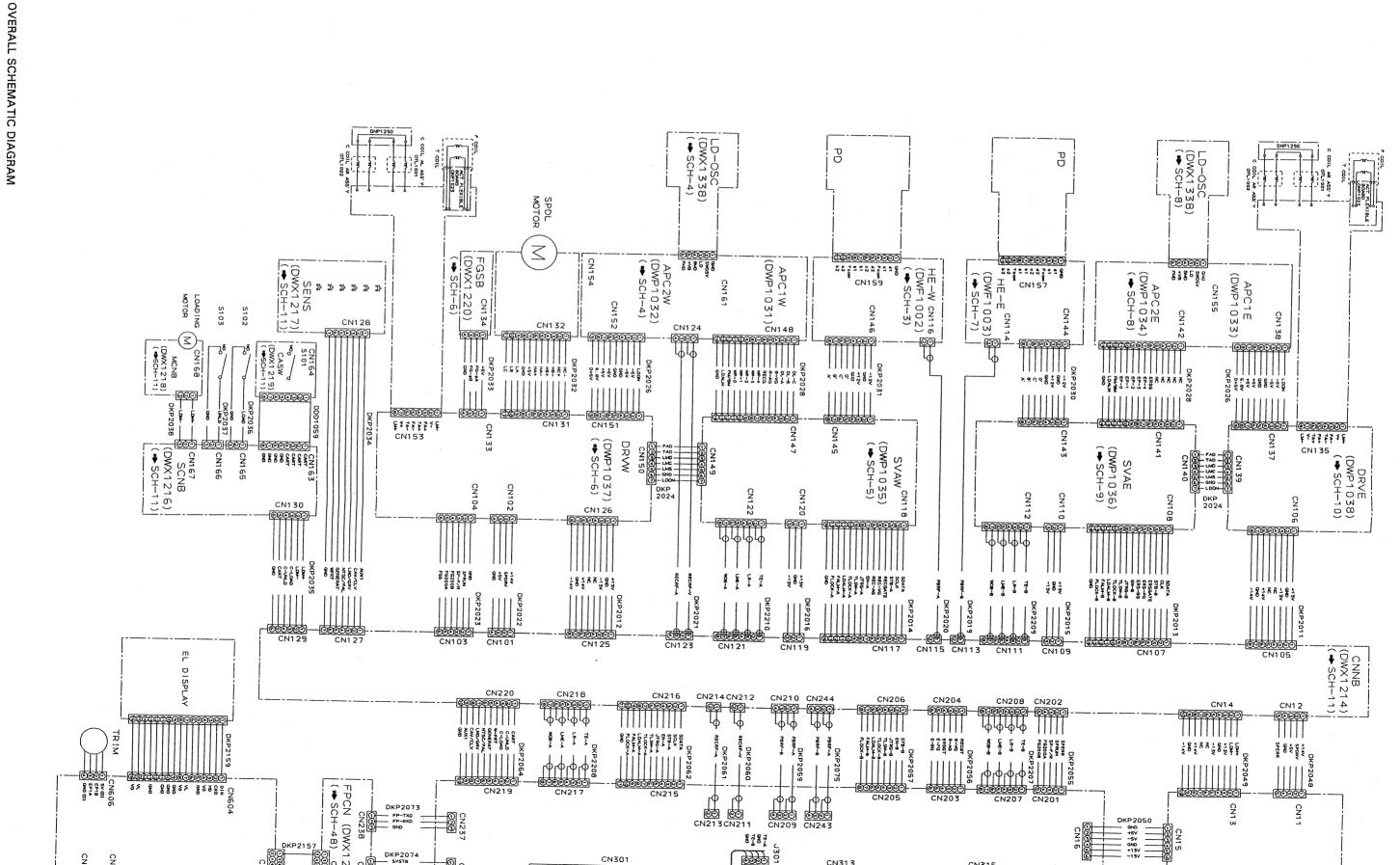
Parts List of Packing ark No. Description

	NSP				Mark
	101	11 12 13 14	6 7 8 9	12847	No.
	VINYL BAG (A3)	OPERATING INSTRUCTIONS DRB1159 (English) REMOTE CABLE ASSY DDX1136 BINDER DRY1145 SPACER DHC1033 UPPER BOARD DHC1035	BOTTOM CASE UPPER CASE MIRROR MAT BAG MIRROR MAT POWER CORD	PP JOINT UPPER PAD A LOWER PAD REAR PAD FRONT PAD	. Description
	Z21-040	S DRB1159 DDX1136 DRY1145 DHC1033 DHC1035	DHG1307 DHG1549 DHL1042 DHL1050 DDG1028	AHG - 204 DHA1264 DHA1261 DHA1262 DHA1263	Parts No.
A CONTRACTOR OF THE PARTY OF TH			101	15	
-VDR-V10000A			7	12	

C

SCHEMATIC AND PCB CONNECTION DIAGRAMS

. 1 OVERALL SCHEMATIC DIAGRAM



O

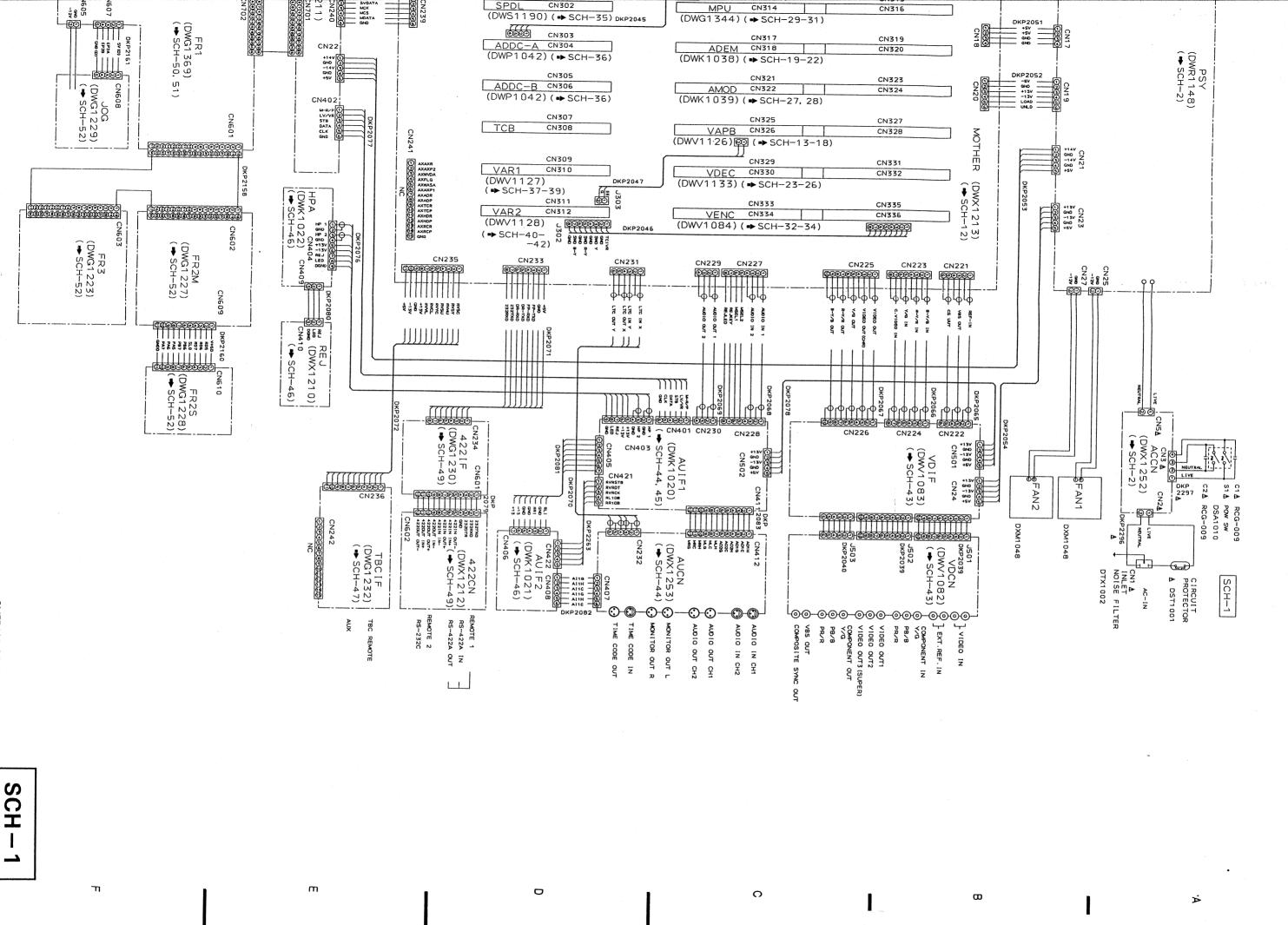
O

œ

m

SCH

m



OVERALL SCHEMATIC DIAGRAM

တ

Α

В

С

38

4.2 ACCN ASSY AND PSY ASSY

NOTE FOR SCHEMATIC DIAGRAMS

(Type 2A)

- 1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".
- 2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement

3. RESISTORS:

Unit: k:k Ω , M:M Ω , or Ω unless otherwise noted. Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted

Tolerance: (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$, (M): $\pm 20\%$ or $\pm 5\%$ unless otherwise noted.

4. CAPACITORS:

Unit: p:pF or μ F unless otherwise noted.

Ratings: capacitor (μF)/ voltage (V) unless otherwise noted. Rated voltage: 50V except for electrolytic capacitors.

5. COILS:

Unit: m:mH or µH unless otherwise noted.

6. VOLTAGE AND CURRENT:

☐ or ← V:

DC voltage (V) at no input signal unless otherwise noted. ⇔ mA or ← mA:

DC current at no input signal unless otherwise noted.

7. OTHERS:

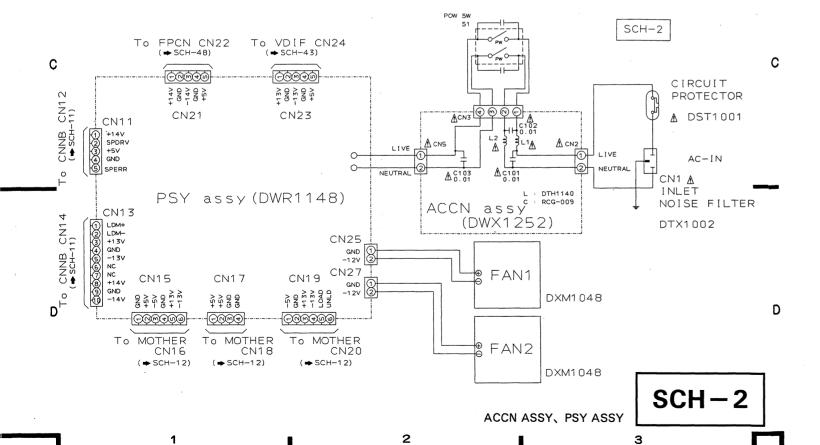
- Ø or **Ø** : Adjusting point.
- : Measurement point.
- The
 \(\! \) mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.

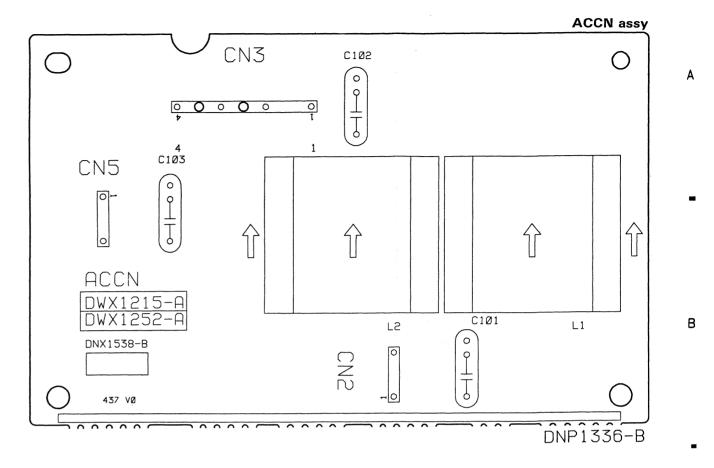
8. SCH ON THE SCHEMATIC DIAGRAM:

SCH—☐ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

9. SWITCHES (Underline indicates switch position):

	•		
S1	POWER SW ON -OFF	FR3 Ass	sy
S102		S17	SET
S103		S18	CLR
VDCN Ass	sv	S19	0
	VIDEO 75Ω ON -OFF	S20	1
	EXT REF. 75Ω ON -OFF	S21	2
VAPB Ass		S22	
	SMPTE/B - CAM A - B	S23	4
	SMPTE/B - CAM A - B	S24	
	SMPTE/B - CAM A - B	S25	
VAR2 Ass	_	S26	7
SW101		S27	
SW102	-	S28	
SW102		S29	-
VDEC Ass		S30	
	DS0 O/C	S31	
	DS1 O/C	S32	
	DS2 O/C	S33	
	DS3 O/C	S34	
	DS4 O/C	S35	
	DS5 O/C	S36	
	DS6 O/C	S37	
	DS7 O/C	S38	
REJ SW A		S39	
S1	EJECT	S40	
FR1 Assy		S41	
S1	RESET	S42	
		S43	
ADEM As SW1	NRM/SWP		CURSOR ^
			CURSOR V
SW2	NRM/SWP		CURSOR <
AUIF2 As	sy LEVEL 600Ω ON -OFF		CURSOR >
S10		S48	
S11	LEVEL 600 Ω	FR2S A	
	HIGH (+4dB) -LOW (-20dB)	S6	
FR2M Ass		S7	JOG
S1	ENTRY IN	S8	SCAN
S2	ENTRY OUT		
S3	PARK	SENS A	WPRT .
S4	REC STANDBY		
S5	REC EDIT	S105	1st GEN.
S9	EXECUTE	S106	NTSC/PAL
S10	PREROLL	S107	GRV/LND
S11	SEARCH		
	STOP		CAV/CLV
	VAR		AUX2
S14	PLAY	CASW	
		5101	CARTRIDGE IN





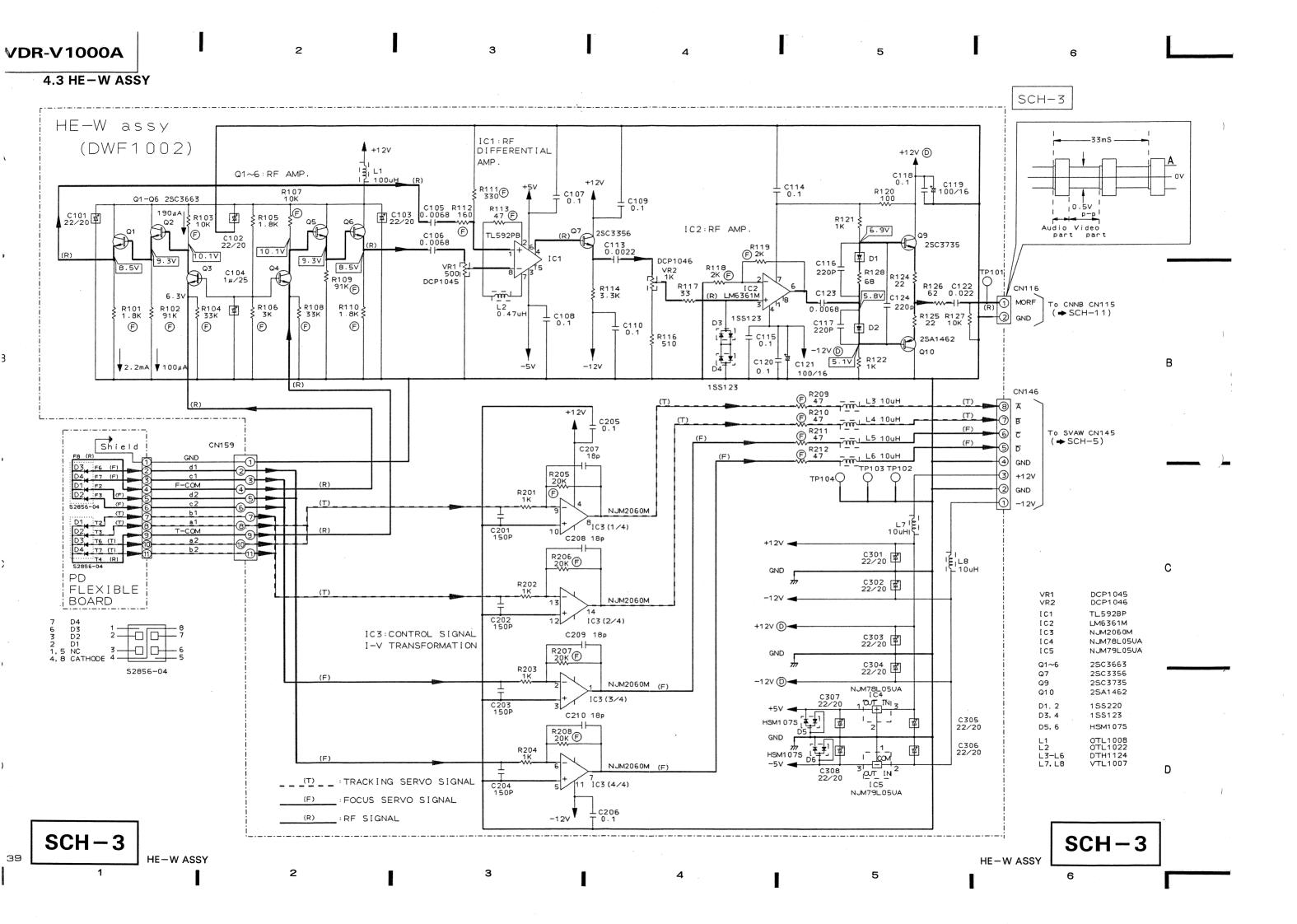
NOTE FOR PCB DIAGRAMS:

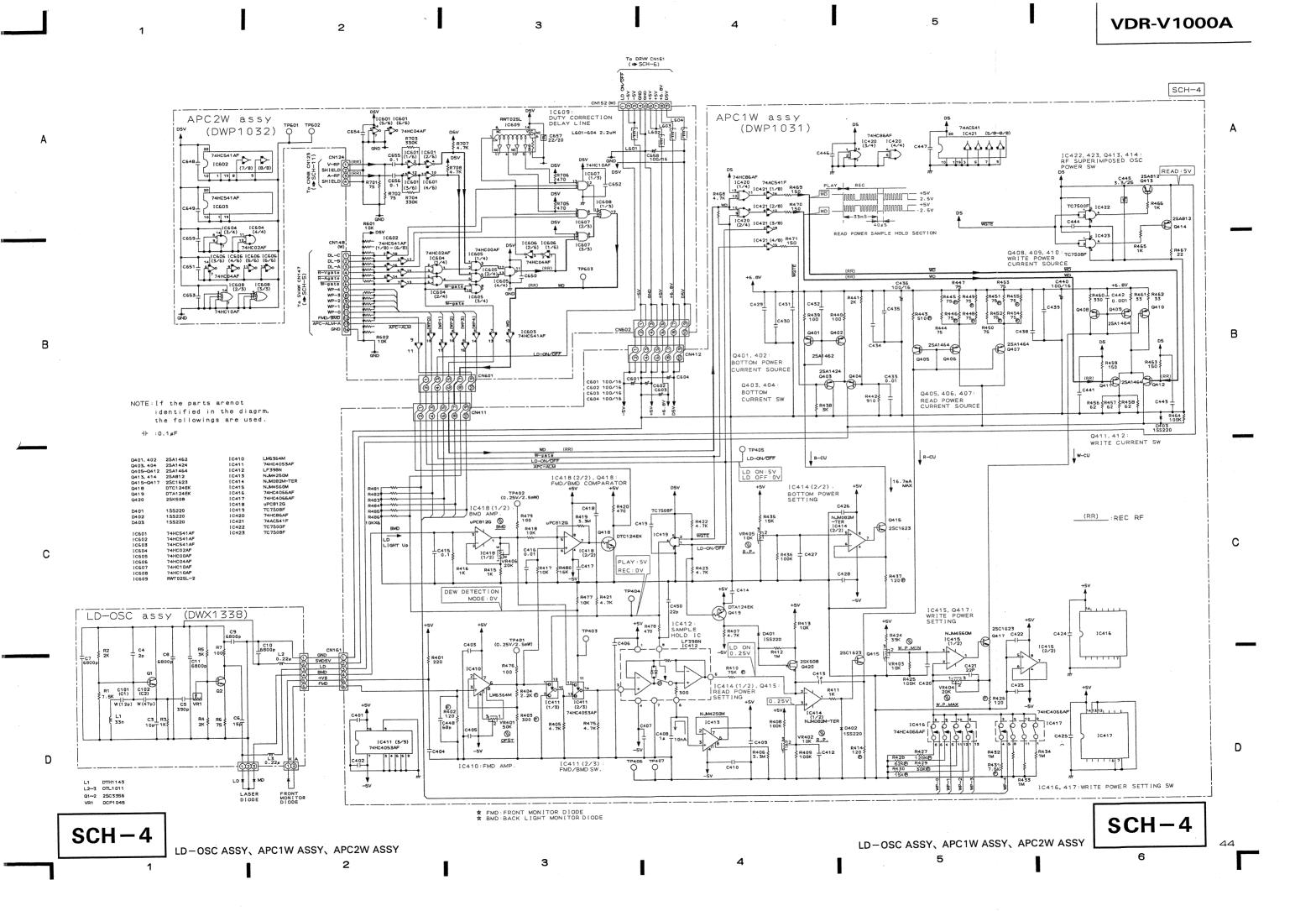
- Part numbers in PCB diagrams match those in the schematic diagrams
- A comparison between main parts of PCB and schematic diagrams is shown below.

grams is shown belo	w		
Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name	
○ ○ ○ B C E	B C O	Transistor	
● <u>○ ○ ○</u> B C E	E O	Transistor with resistor	
© O O O D G S	D G S D G S	Field effect transistor	
<u> </u>		Resistor array	
000	IN OUT	3- terminal regulator	

■ 3

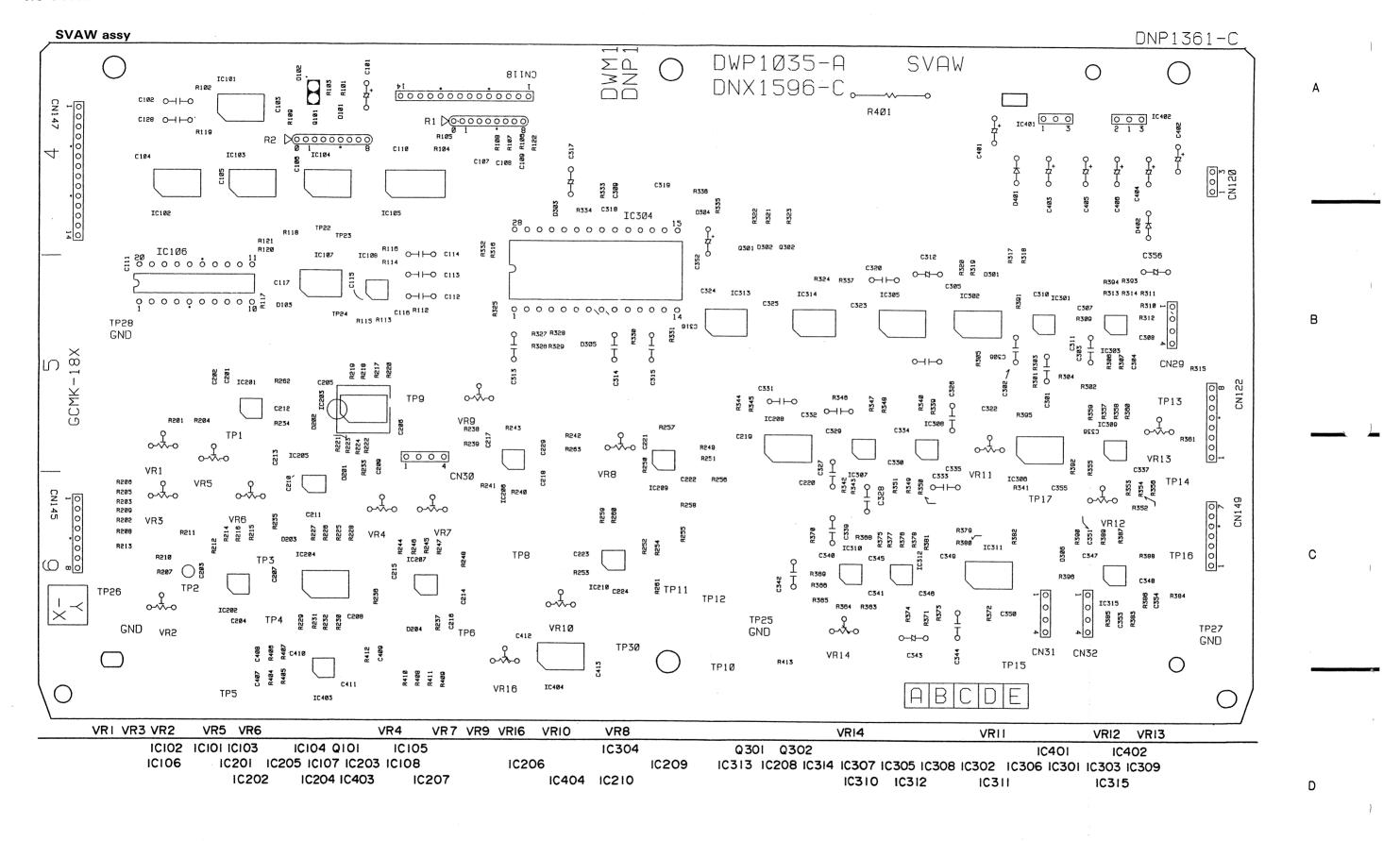
2





PCB-4

4.5 SVAW ASSY



Α TP1@S IDIGI 1 S R127C122 92TH 22 R125 R124 C304 C302 C306 OHO C119 OBO 0121 C301 C305 DWF1002-F C118 021R 121R 09 Q9 Q10 5 P R128 R122 C114 C123 C117 C120 В C115 $\dot{\Box}$ TR R116 IC2 VR2 VR2 R117 C113 R205 R201 C207 R2Ø8 R114 C11Ø C210 R204 D4 C2Ø4 C2@1 Q7 C Q7 C5@8 C2Ø5 ІСЗ C5@5 C2Ø3 • 0 0 R2Ø2 C2Ø8 O C108 C107 O C209 R203 IC1 R2Ø6 R2Ø7 O D6 D5 O ICI R112C105 Ç ωO VR1 R110C106 R1Ø1 G6 60179 C102 Q6 Q1 R102 C103 C1Ø1 Q5 Q2 R103 R107 R1 05 Q4 C1Ø4 Q4 Q3 R1Ø4 R106 D HOIGT ZOIGT 00000 CN159 00000 DNP1363-C

41

2

3

VDR-V1000A 4.4 LD-OSC ASSY, APC1W ASSY AND APC2W ASSY APC1W assy DWP1031-A TP404 DNX1602 -C R486 R485 R488 R482 R482 VR401 VR406 VR402 VR405 В VR403 VR404 Q413 Q414 IC422 IC423 IC410 IC413 IC IC411 IC41 Q401-Q407 Q40B-Q412 IC413 IC418 Q418-Q420 Q417 IC415 IC419
IC412 IC414 Q416 Q415 IC416 IC417 APC2W assy DWP1032-A DNX1603-B IC609 L603 L602 R701 R7Ø6 CN6Ø2 C652 C653 00000 CN6Ø1 Ç 00000 00000 IC605 C648 IC608 IC609 IC602 IC607 IC601 IC603 IC604 IC605 IC606 LD-OSC assy 2 C6 2 3

PCB-3

D

SVAW ASSY

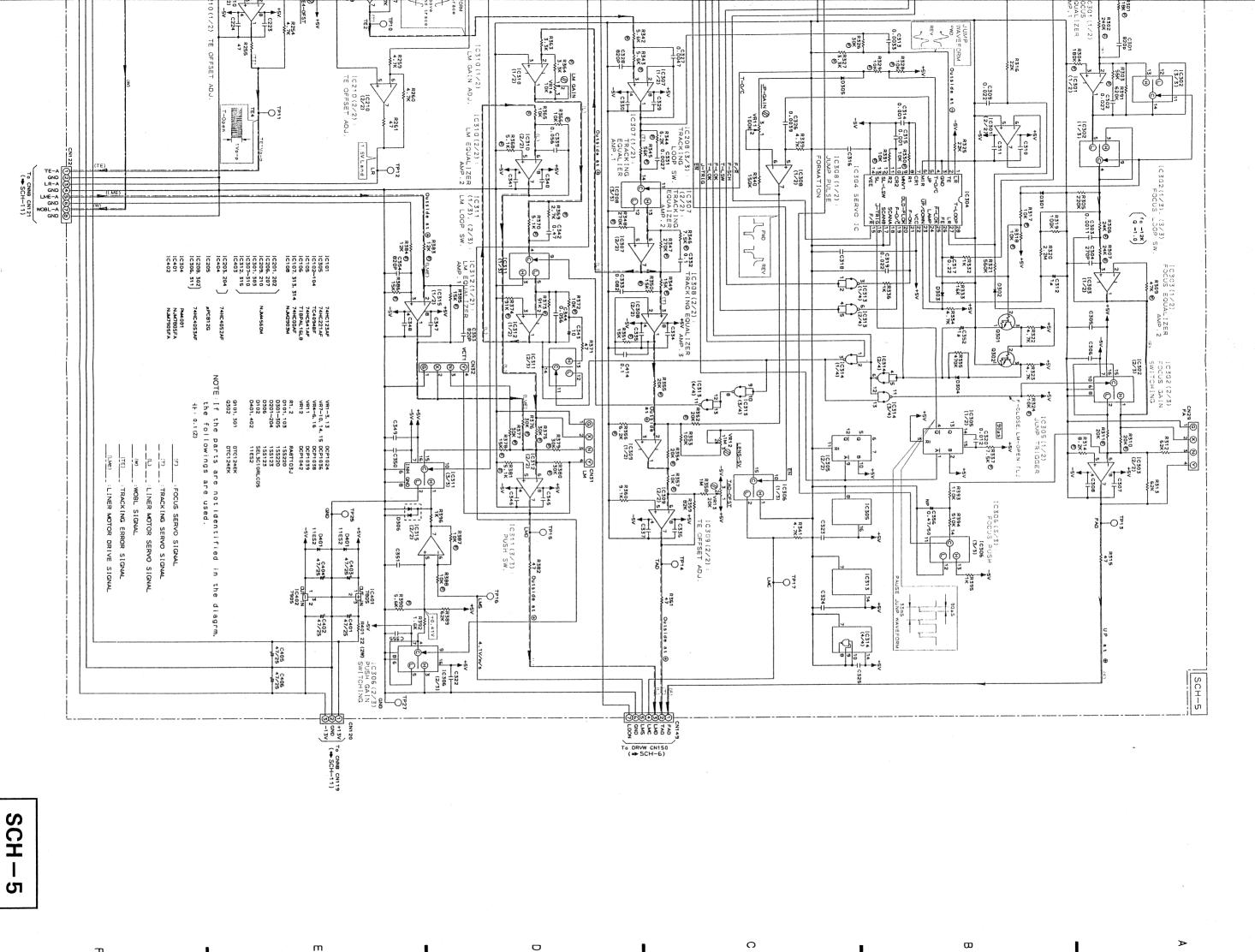
O

 $\boldsymbol{\omega}$

О

m

10210



VDR-V1000A

'n

SVAW ASSY

N

S Ö 工

0

0405 (1)4) 3

100/25

C408 47p T

±C407 ∓ 47_B

m

О

O

47/25 2

C302 47/25

D309 RD100A

C307

#C312 100 100/25 W G #303 47K 25C3327

- \$ R 3 0 5

₹R308

Q301, 302, 303, 304, 305 ABNORMAL POWER DET

C3035

C304 47/25

1 C306 47/25

C308

C310

D314 RD100A

C314 0.1

~ \$ 8506 2.2K

1SS254 0303 0303 2SA933S R309 100 R309 2.2K2SC1740S

1C307, 308:LD LIGHT UP

DELAY CIRCUIT

œ

C316 2

R312 1K

D307x \$R317 R313 1K 4.7K

141312 110 1 1C307 74HC08

C321:

R314 2W 18

Q306, 3

307, 308 D POWER

8 DTC114YS

4.7K

C322

0308 0308 8510 330K

APC2W CN152 (♣ SCH-4)

2 t 5 7 t 4 t 5 7 t 4 t 5 7 t 22/16 6.57 ₹R214 ₹R218 *R215

1.8K

1.8K

R404 1.8K R403 1.8K

C402 33/50

1.8K

1. BX

R414 1.8K 1.8K 1.8K

To CNNB CN101

FGSB assy (DWX1220)

\$R219

IC201 (4/4)

711K

\$910 +

Q202:

DETECTION

MTZJ4

22/16

DZ08

1SS254 D203 R220 \$330

02 D

₹R223 ₹82K

\$910 IL

6.77

\$R207

\$910 C205 11(174) + 3

\$R210

204 : RELAY DRIVE D206

R225 82 (2W)

C208

L301 47uH

17uH

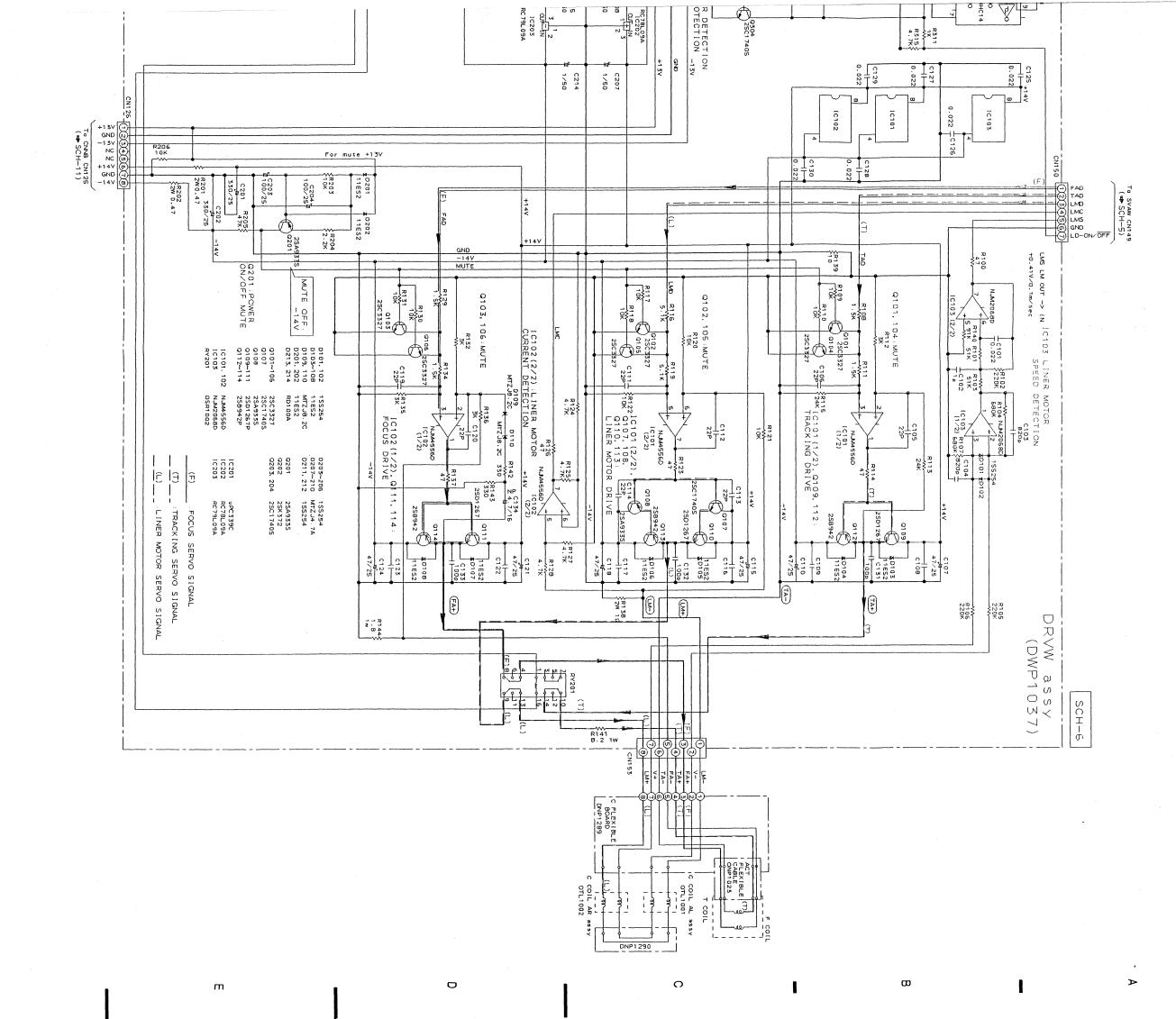




DETECTION D205 1SS254 VCC 20 HA+ 19 HA- 118 HA- 118 HB- 116 HC- 115 HC- 115 RC 112 RC 112 RC 112 RC 113 RC 1 2SC1740 D211 2155254 D212 155254 SPINDLE MOTOR DRIVE C403 53/50 1 3P C405 HC-HC+ HB-HB+ HA-HA+ +5V GND LA LB #C410 0.47/50 NP C409 0.47/50 D214 D213 RD100A C215

10 BRAK

m



FGSB ASSY、DRVW ASSY

9

SCH-6

חד

FGSB assy C1040-EB-OCN134 DNX1543-B DWX1220-A F G

DRVW assv CN153 CN122 CN131 PIBICIDIE C411 C410 0000 0000 000000000000 DNX1288-C C405 \circ O-N-0 D-72019WO IC403 0 0 0 0 0 0 0 0 0 R225 © C515 © O→ I→ ®O 010 015 014 018 0000000000 0-11-0 0 0 0 0 0 0 CS12 D CS00 SS O CS00 SS C404 R222 OHO OHO OHO D206 C210 N D206 C210 N D206 R222 OHO OOD OO D20 R222 OHO OOD OO D20 R223 D204 202925 R224 ~ 1C3Ø8 IC307 14 0 0 0 0 0 0 0 0 14 0 0 0 0 0 0 0 0 0-1-0C319 0 Z 0 0-1-0C318 0 o-vv-o R316 303 C; R144 0402 0 0 0 0 0 0 0 0 0 0 0 0 R138

R138

R138

R138

R139

R139

R131

R134

R130

R131

R134

R130

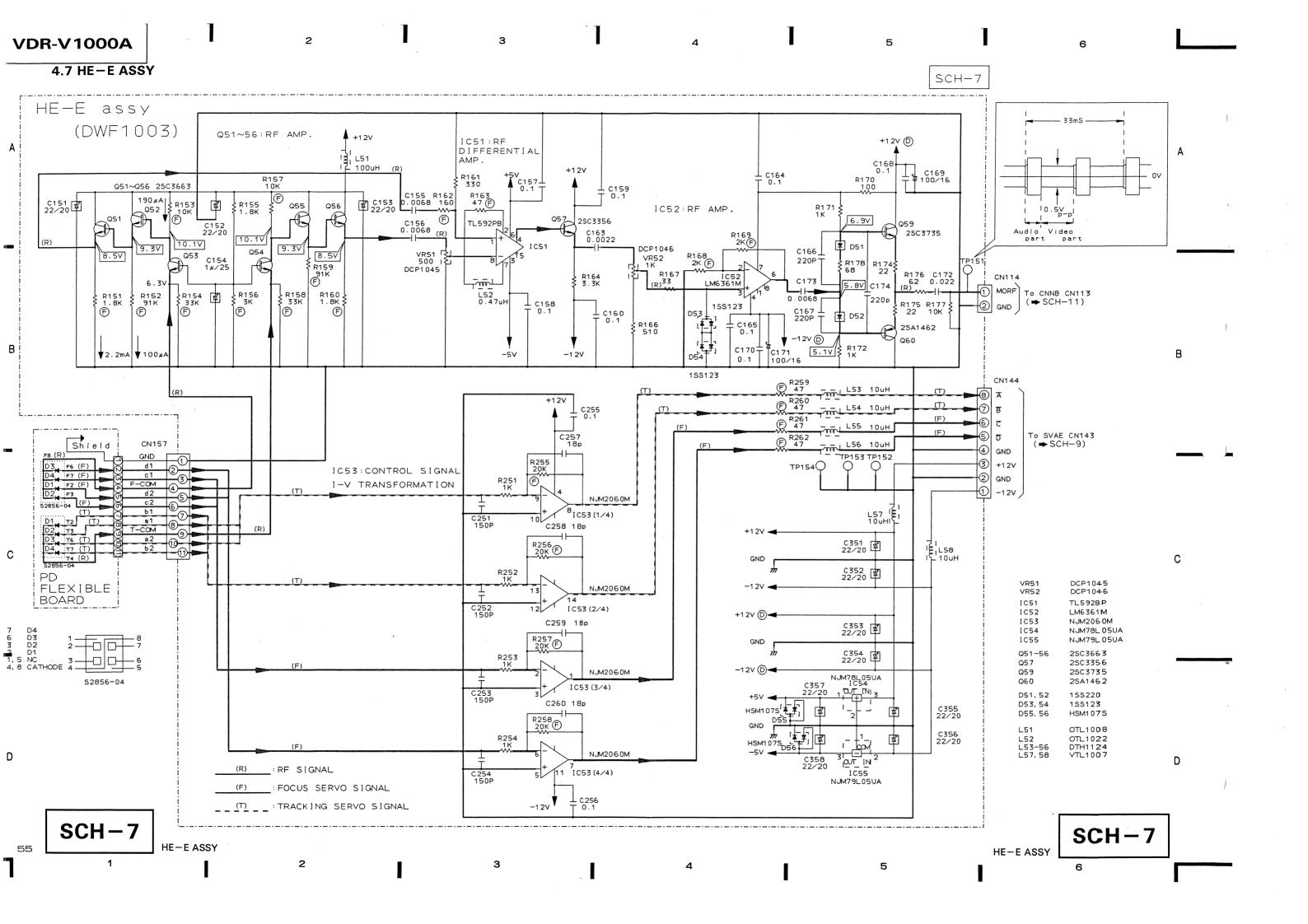
R131

R134

R130

R131

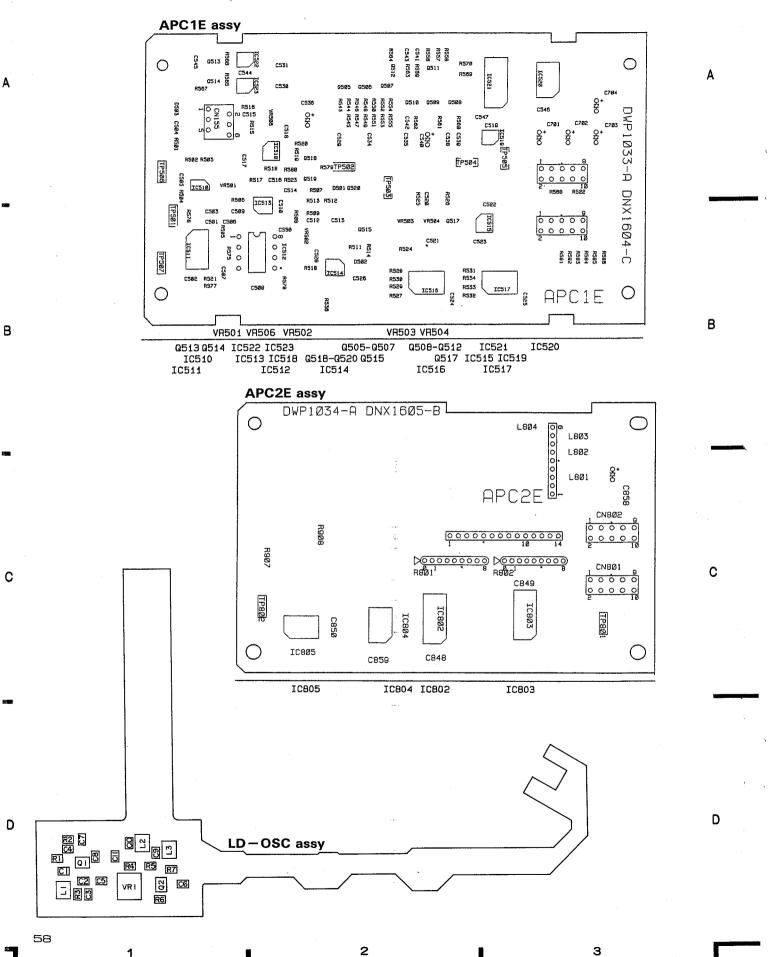
R131 R138 CN150 0-11-0 R105 0-00-0 C102 C126 C104 ó-i⊢o C121 C118 C B C105 C R114 ० ० ० ० ७ C108 G501 0-11-0 0-11-0 C1Ø1 0-2 C124 0-D-0 0~~~0 0-107 R107 Q1Ø8 R136 0 % 0- 0- 0 D101 R137 D202 0-VV-O R206 **оно оно** 0-14-0 0-11-0 0-16-0 Θ 0-14-0 C123 0-11-0 0-14-0 0-14-0 D104 Q112 D1Ø3 D105 C116 C109 C108 D107 0108 C122 C117 _^^_ Q1Ø9 0113 Q11Ø 1110 1110 R2Ø1 R103 0 0 0 E C B C125 0-1-0 0 0 C103 0 IC307 IC30B Q203 Q204 IC202 IC203 IC201 IC403 Q404 Q301 Q302 IC301 Q308 Q307 Q306 IC306 Q101 Q104 Q303-Q305 Q405 Q106 Q103 0202 Q105 Q102 Q401 Q402 Q403 IC304Q109 IC305 Q201 IC302 IC303 Q111 IC102 Q108 Q113 Q107Q110 IC101 Q112 Q114

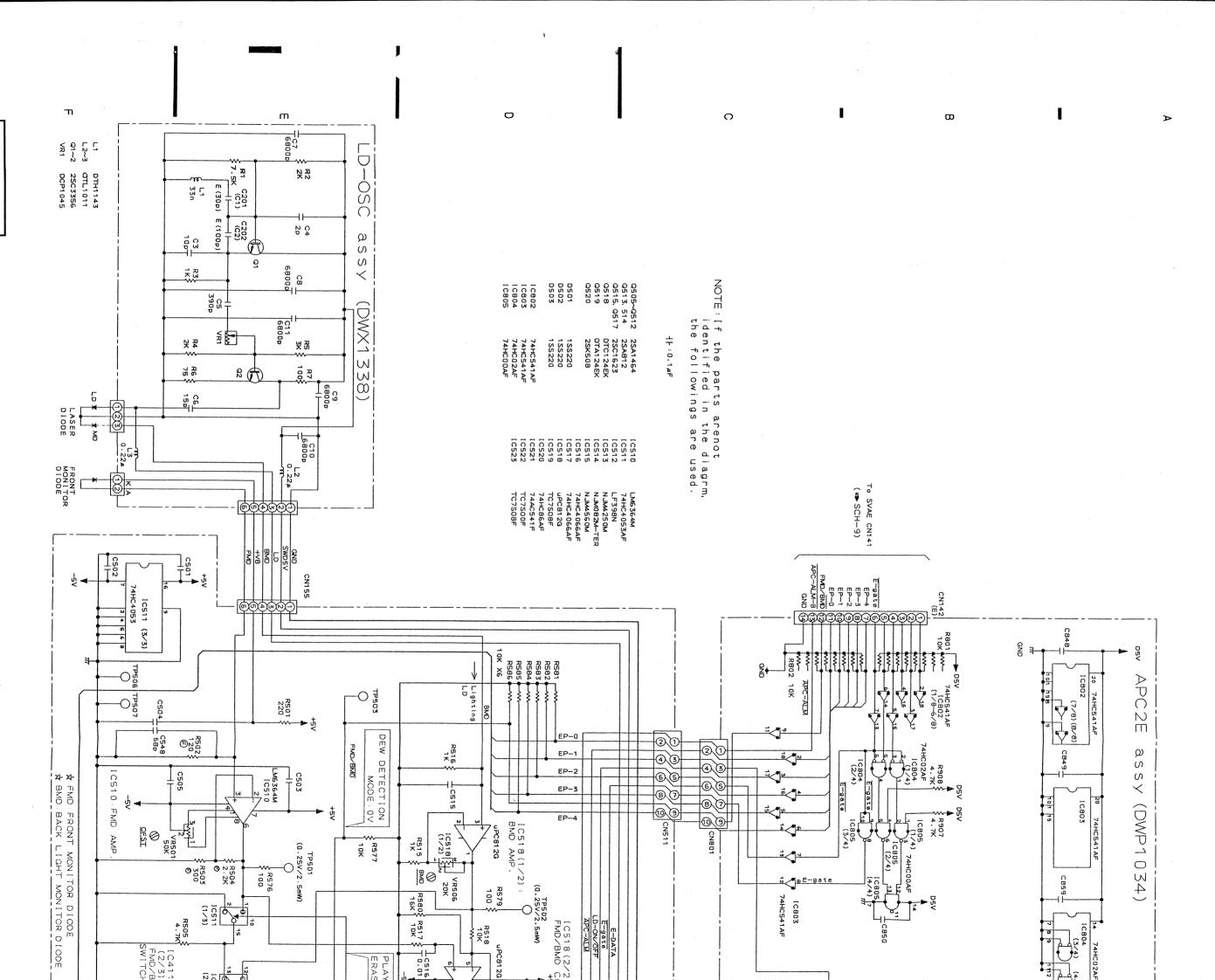


HE-E assy 1 . 8 **TP15**22 Α IPIZI L57 **L**58 00 R177 € ១८រម ក្ល C171 C169 010 940 C351 C355 L53 **L**55 Q59 Q6Ø Q59 D51 R178 R172 Q**L**56 IC54 R171 IC55 00 Е C166 C173 C17 В → (M C170 C358 C165 $\cap D$ ICSE IC52 R166 R169R168 VA52 VR52 R167 C163 R255 C257 R258 R251 C590 R254 C16Ø C159 C251 C254 Q57 Q5*7* C255 C256 IC53 0 C252 C253 • 0 C157 O O C158 R252 C259 R253 C258 IC21 IC51 R256 R257 D55 o O D56 R162 C155 (Ç VR51 VR51 لي R16@C156 Q56 Q51 R151 Q56 6518 Q55 Q52 Q55 052 R157 C154 R158 Q53 Q54 R156 Q53 R154 D **SEL91** 16124 0000

3

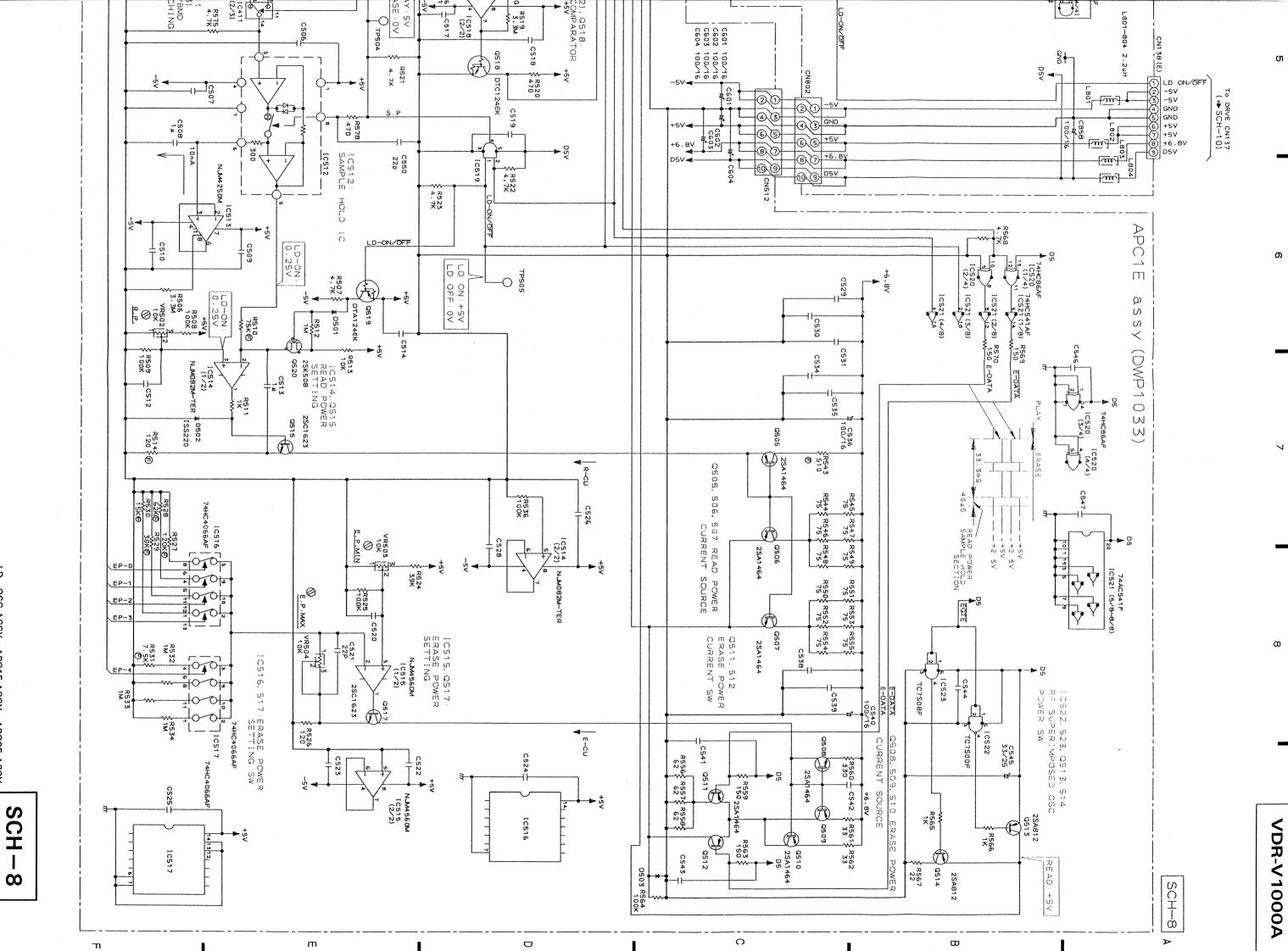
4.8 LD-OSC ASSY、APC1E ASSY AND APC2E ASSY





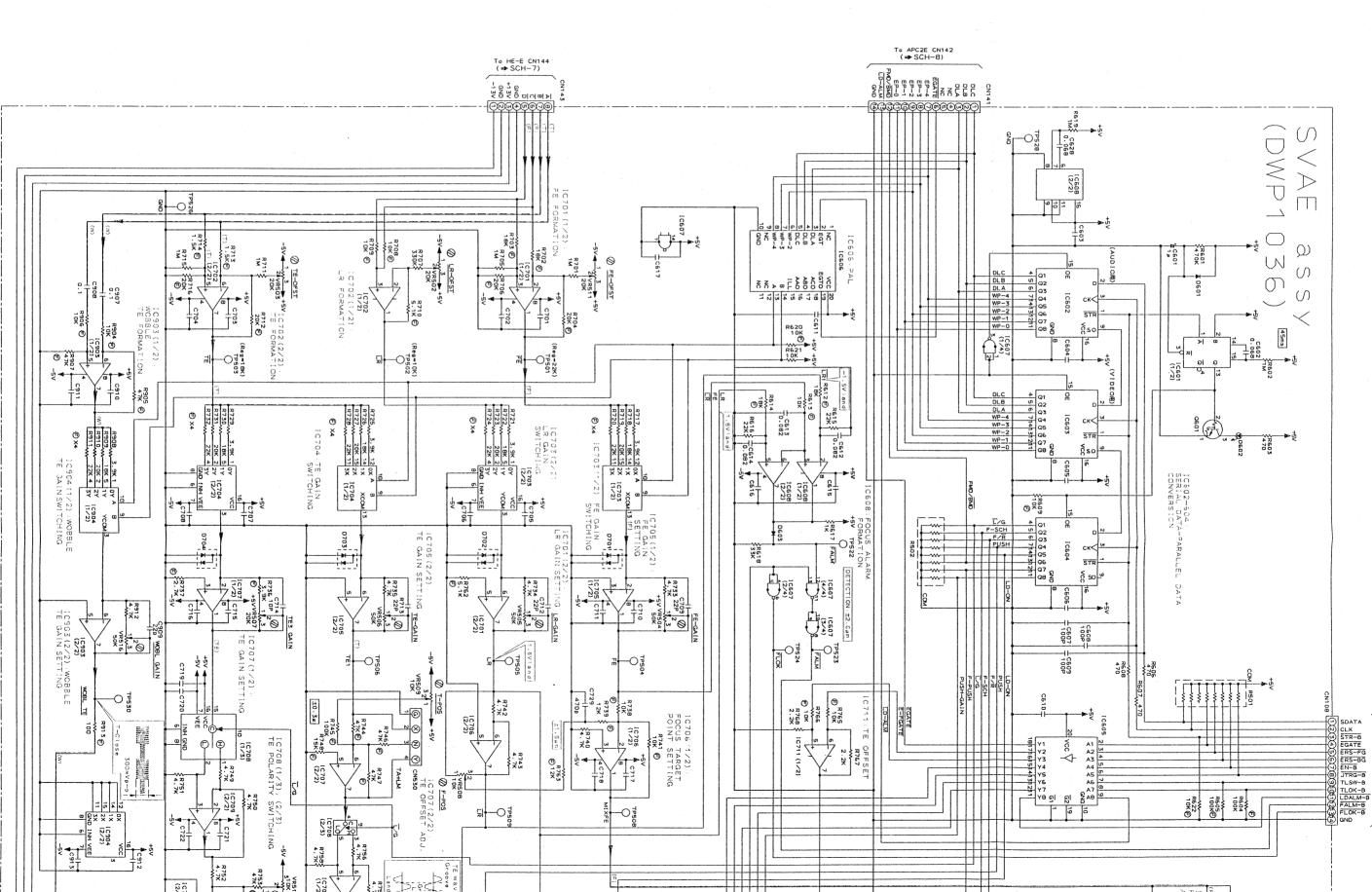
SCH ∞

LD-OSC ASSY、APC1E ASSY、APC2E ASSY N



APC1E ASSY, APC2E ASSY

ω



O

 $\boldsymbol{\omega}$

O

m

ທ ຄ

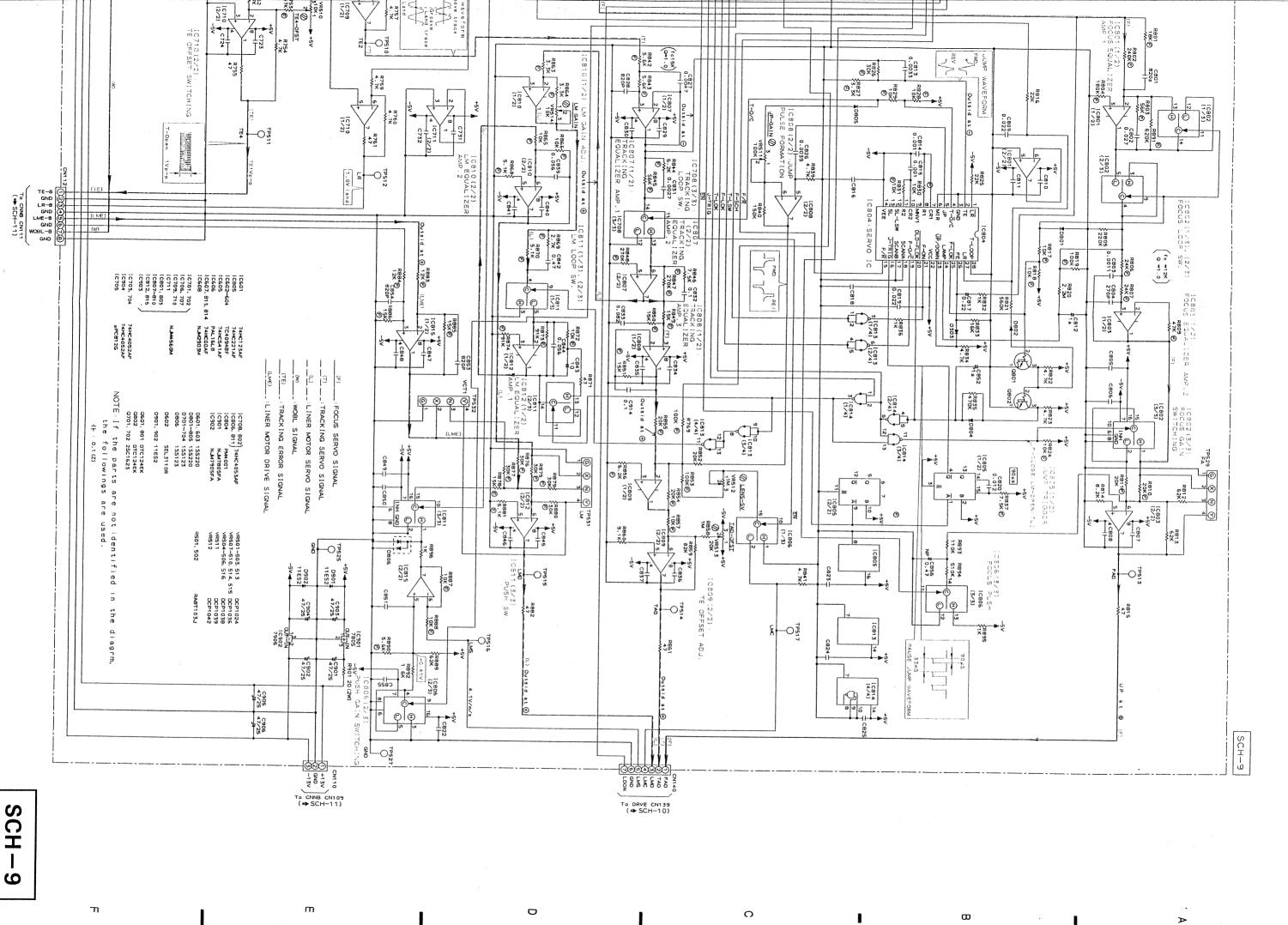
SCH

9

SVAE

AŜSY

m

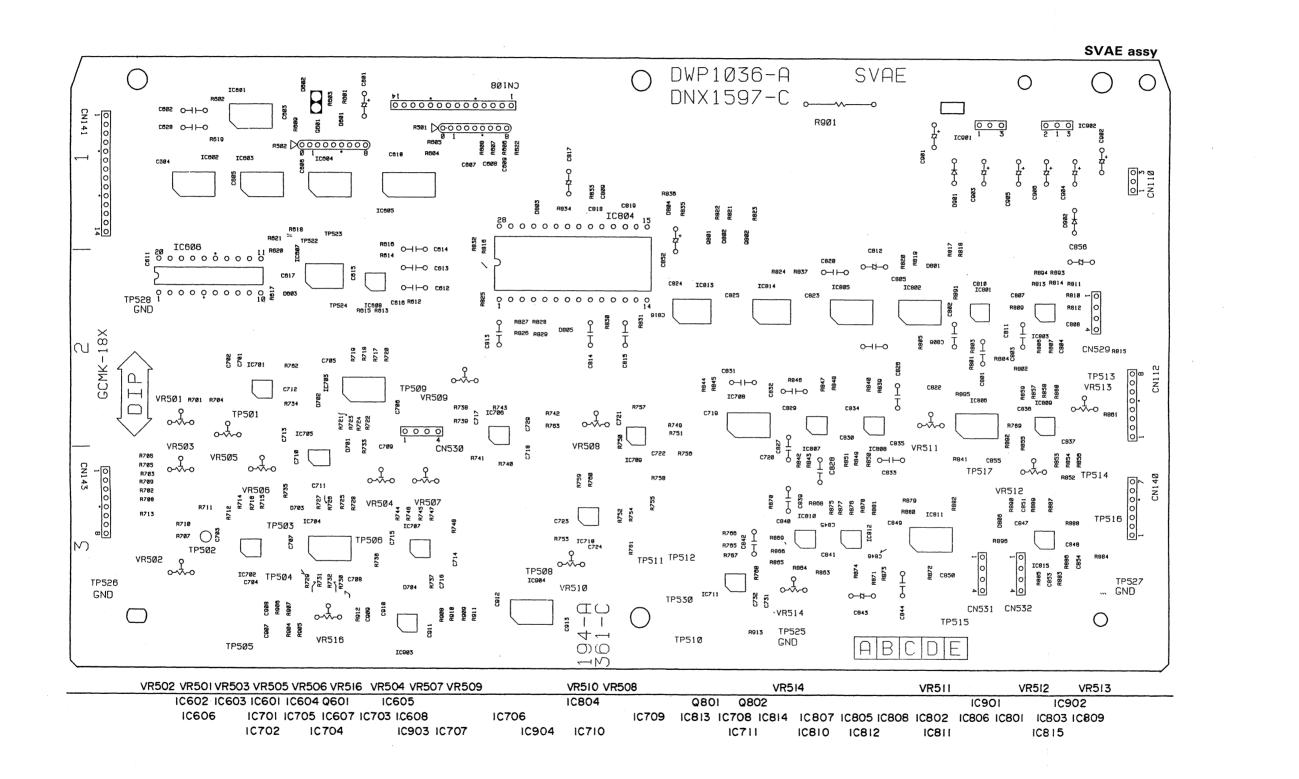


O

SVAE ASSY

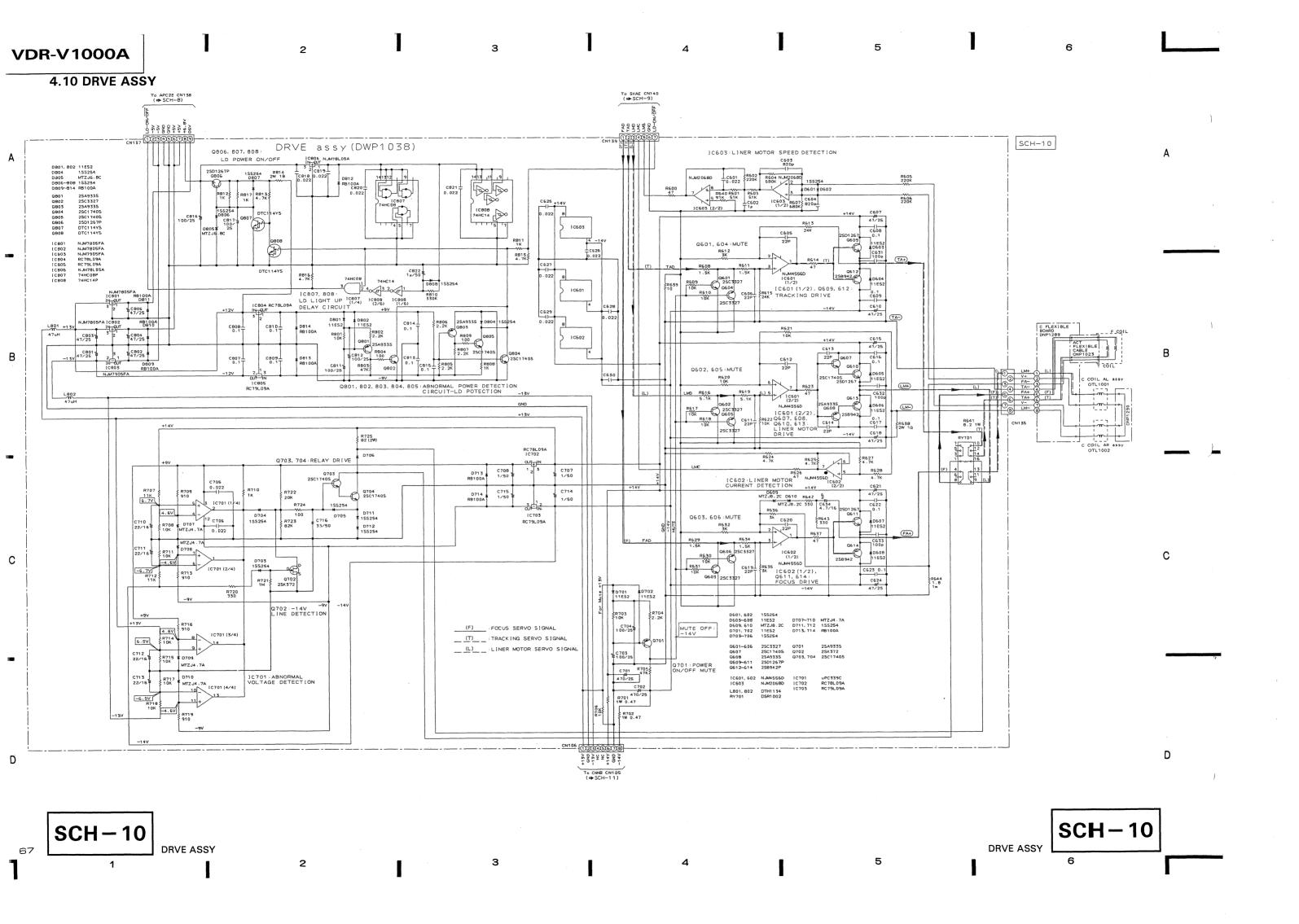
ဖ

PCB-8



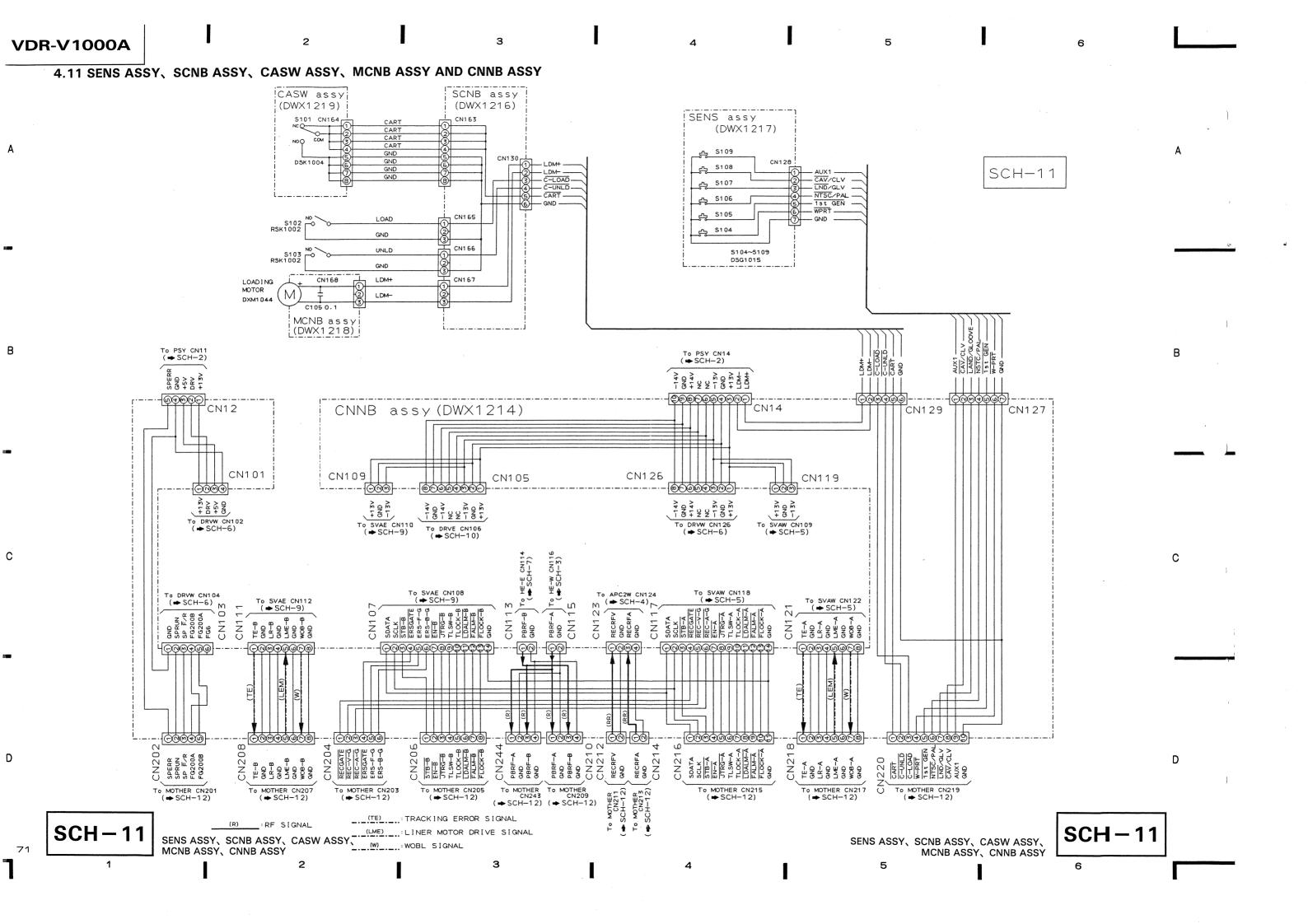
D

С

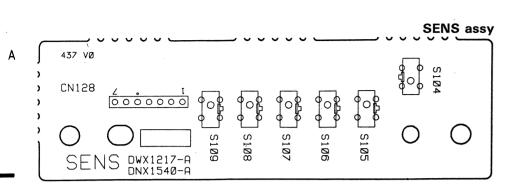


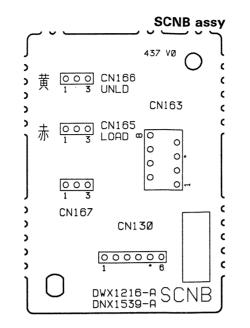
PCB-9

DNP1362-C **DRVE** assy 0 \bigcirc 0-12-0711 0-13-0705 0-13-0705 0-13-0-13-0 R712 E C B(IC702000 DWP1038-A ABCDE 0000 RY7Ø1 0-VV-0 0-VV-0 R718 R717 D713 O-N-O IC703000 o-vv-o 0-14-0 R720 0-11-0 C602 R721 D703 0-0-0 D-0 R724 IC808 70 C6Ø4 0000000 0 0 0 0 0 0 0 0-1-0 C819 R722 R723 C626 0-V-0 0 0 0 D G S 0-D-0 0702 0-4-0 C6Ø1 O-1-O C716 0-14-0 C855 0 0 0 0 0 0 0 0-44-0 R816 R601 0-00-0 100 D7Ø4 REGE 0-11-0 0803 R600 0-VV-0 R6Ø4 R605 0~~0 R602 0-VV-0 o-vv-o R630 C6Ø3 0-VV-0 R617 R603 0-VV-0 0-1E C B o-vv-o R629 \circ -1 \leftarrow 0 0606 C625 0-VV-0 R626 R616 0-VV-0 0-VV-0 R610 R609 C-V-O Q601 R612 E C B C-V-O Q O O 0602 R619 0-//-0 C611 0-VV-0 R624 0-^-0 Q603 R631 C817 R639 •~~~ C8Ø9 C810 R644 0 0 0 0 0 R611 R627 0 R622 0110 0110 R643 6 R627 D7Ø1 C808 C8Ø7 C704 0-14-0 R7Ø3 0-^-0110 0110 o-vv-o 💆 \odot IC801 D7Ø2 0-14-0 161 ®0 H 0- 000 R628 0000 0~~0 0-^-0 000 0-14-0 ωO R621 C613 R623 C627 C628 OHO OHO OHO C615 C610 o-v-o 12 Ce58 R613 C631 ر 10805 ب حق R7Ø6 0~~0 0-13-0 C63Ø R702 R7Ø5 D609 0-VV-0 0-11-0 OHO # OHO 0-1-0R625 C614 E C B C8074 C8074 C8011 C624 C618 C621 o⊣⊢o C605 C62Ø R637 0 0 0 0-4-0 0-4-0 0-VV-0 R614 0-4-0 0-12-0 0~~0 0-^-0 0608 C6Ø8 D604 D603 C6Ø9 0608 △ MA GCMK-41X 0-14-0 0-K-0 Θ 0-14-0 0-14-0 \odot H \circ 0-14-0 $\Theta \vdash \Theta \Theta \vdash \Theta$ \sim 0-14-0 T 25 D605 0606 C616 D6Ø7 C622 C617 C623 CN1Ø6 0190 2190 6090 2190 1190 190 (O O O) 0 0 0 IC807 IC806 IC701 Q703 Q704 Q805 Q804 Q803 10808 Q702 IC702 IC703 Q801 Q802 IC801-IC805 Q806-Q808 Q601 IC601 Q604 Q605 Q602 10602 FC603 Q70I Q606 Q603 Q612 Q609 Q613 Q608 Q607 Q610 Q611

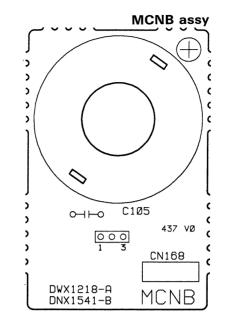


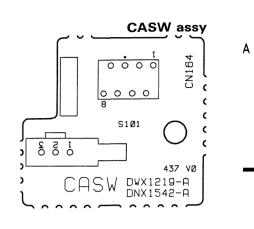


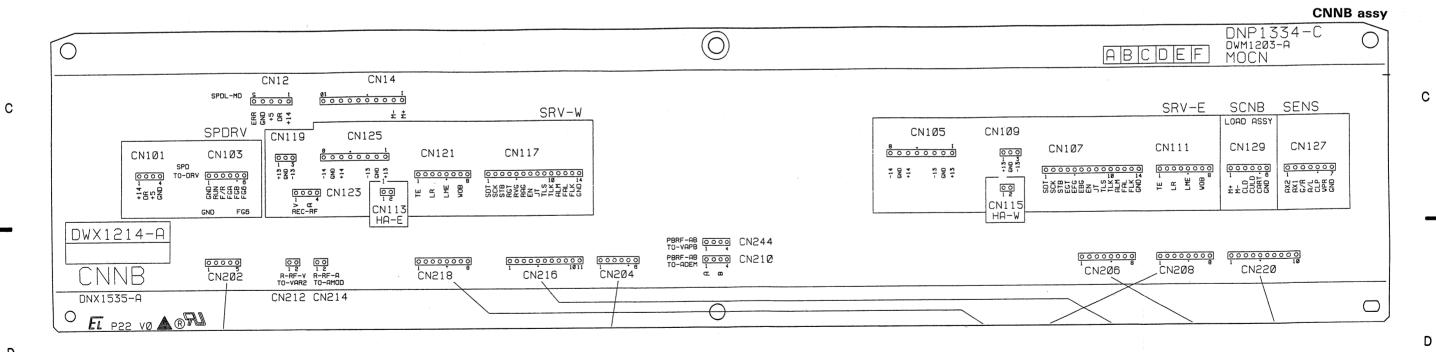




3







D

В

В

2

3

PCB-11

MOTHER assy 00000 0000000000 00000000 000000000 DWX1213-A . E CN2Ø5 CN2Ø1 CN203 CN215 CN217 w CN2Ø7 E DNX1534-B **EL** P22 VØ CN3@1 \bigcirc 00O 33 . 48 . 58 . 68 64 O 00000 1 2 1 . 8 0000 00000 0000 В 1 . 1 $\bigcirc \ \ \overset{55}{\overset{5}{\circ}} \ \overset{\cdot}{\overset{\cdot}{\circ}} \ \ \overset{48}{\overset{\circ}{\circ}} \ \ \overset{\cdot}{\overset{\circ}{\circ}} \ \ \overset{59}{\overset{\circ}{\circ}} \ \ \overset{64}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}}} \ \ \overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\circ}}} \ \ \overset{\circ}{\overset$ 00000 000 1 . 10 12 000000 0 \bigcirc 1 4 15 000000 000 1 . 1011 00 \bigcirc SS . 40 . 50 . 60 61 64 00000 000000 000 0 0000 00 CN333 O 53 · 64 · 58 · 68 · 64 O 33 · 40 · 50 · 60 · 64 · 64 8 . I 00000000 1 . 1

D

78

В

С

3

3

2

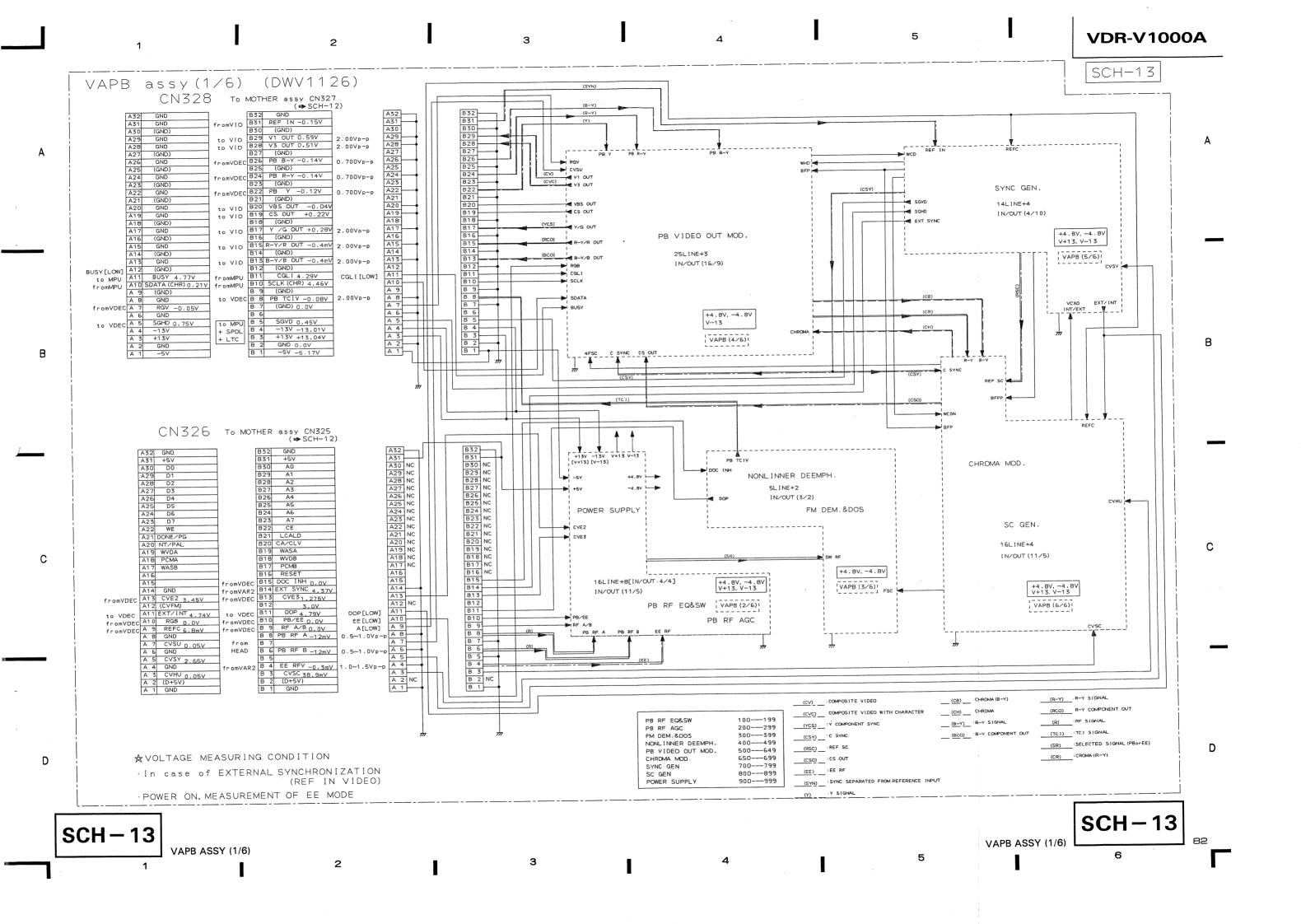
4

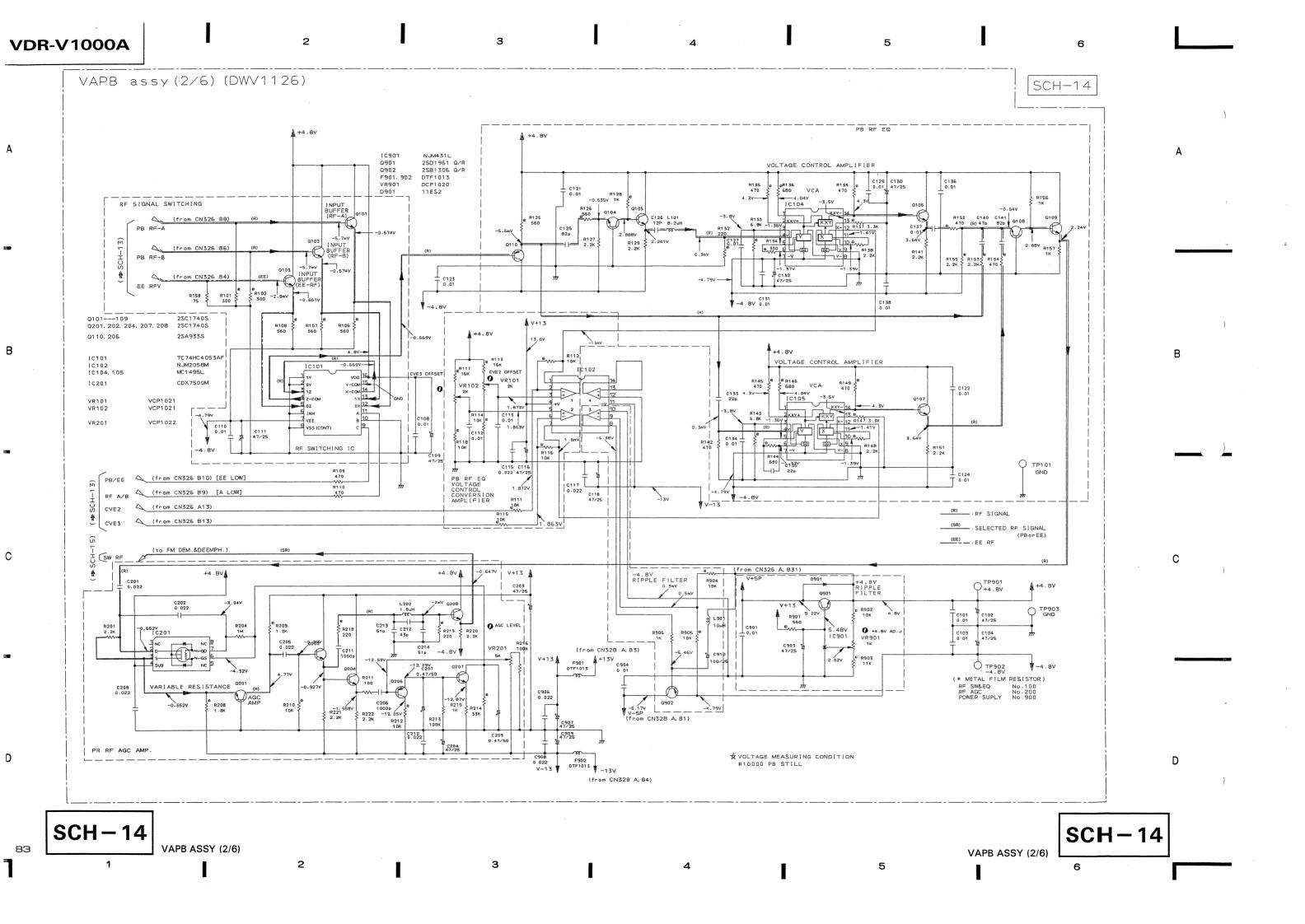
5

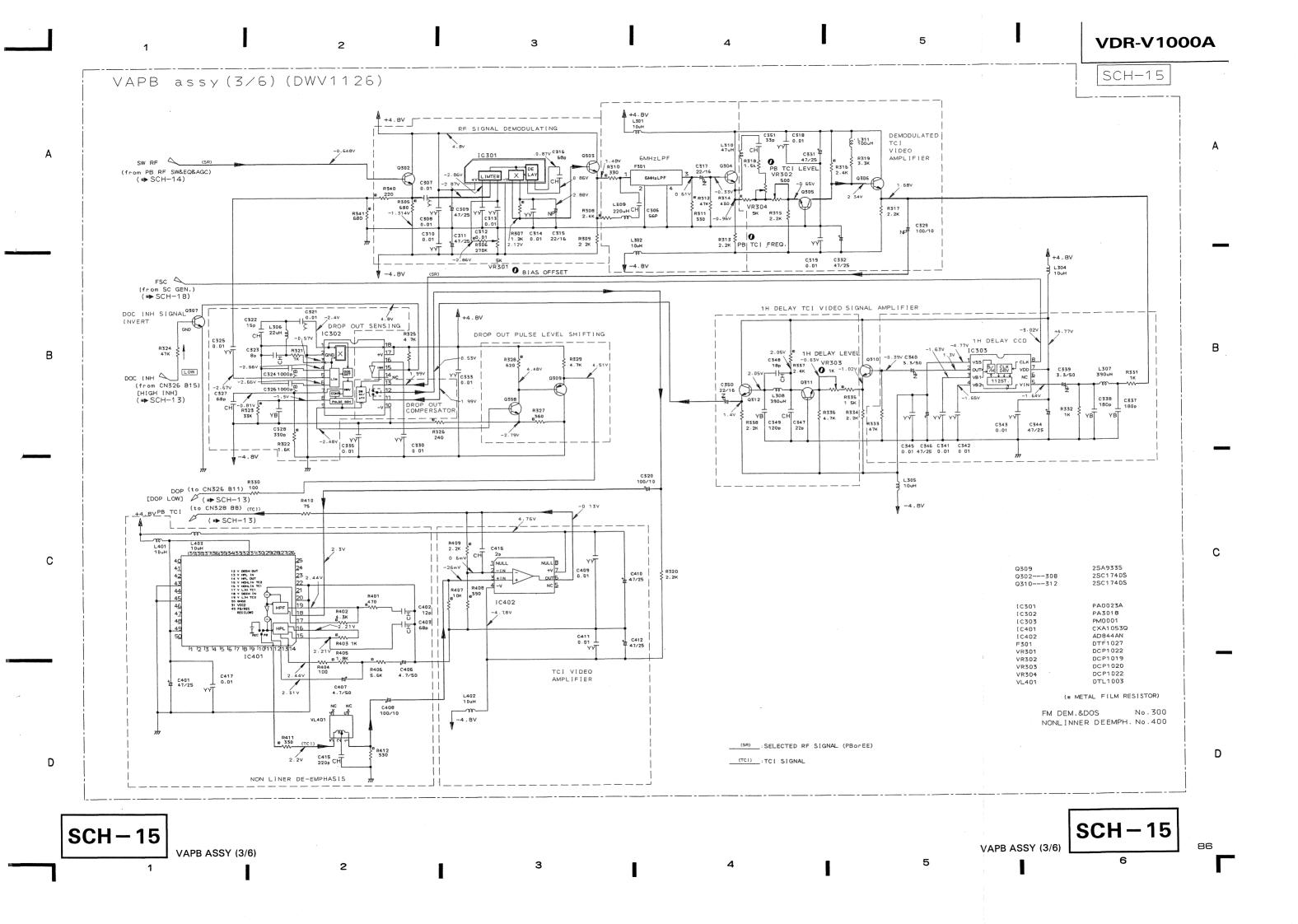
PCB-12

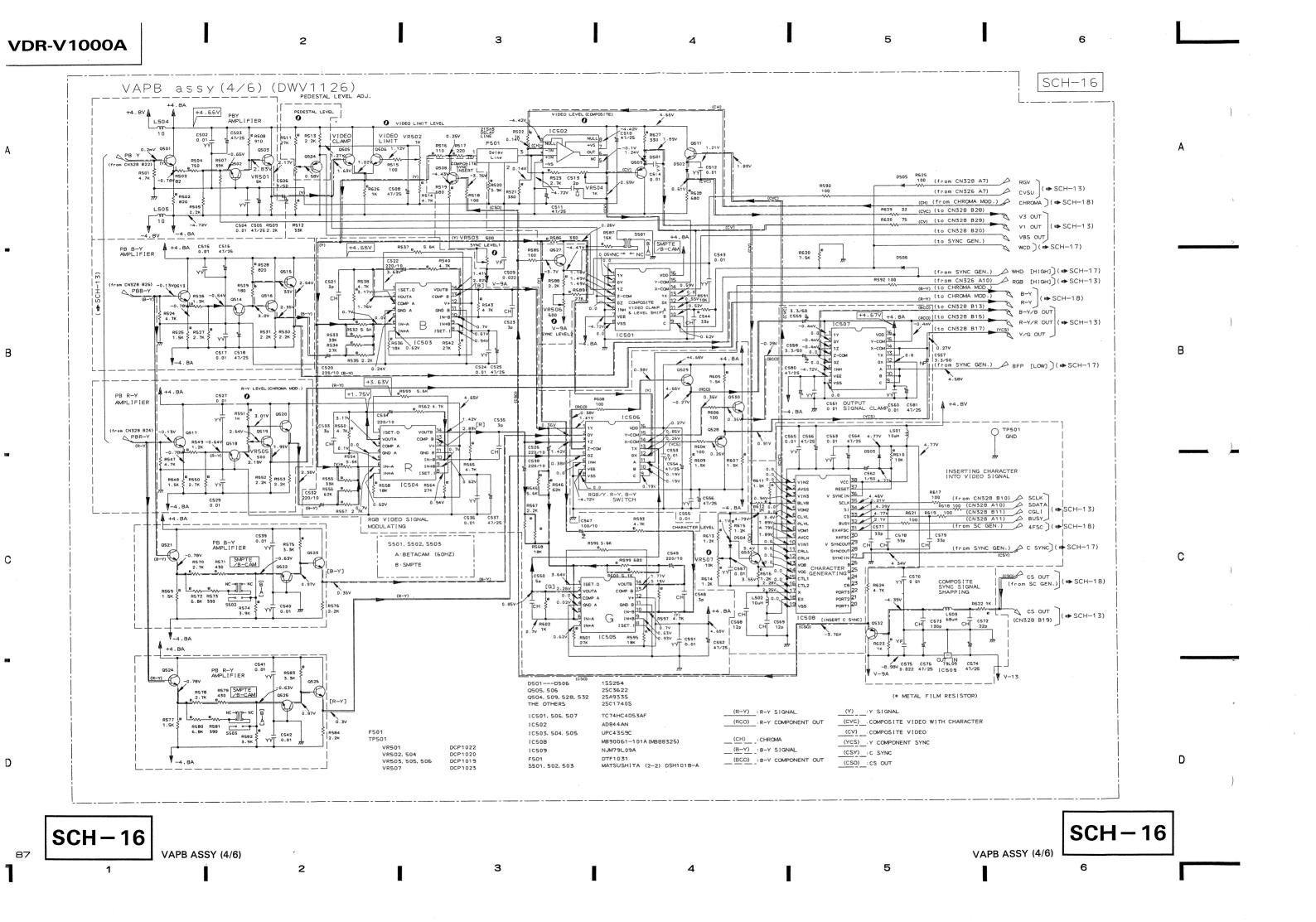
4.13 VAPB ASSY

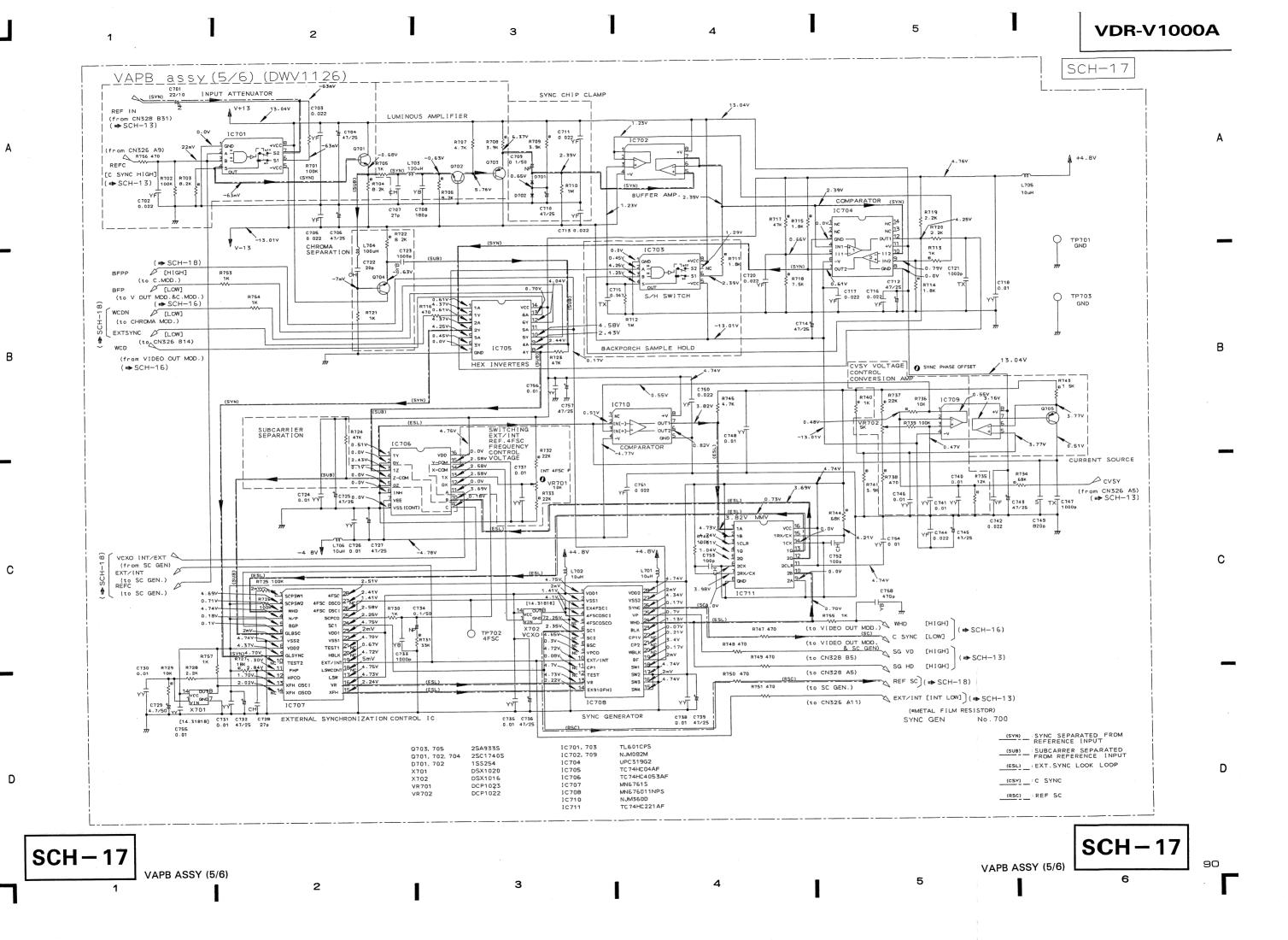
VAPB assy			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$)
VR504 VR504 VR501 H D D F G T J C548	VR504 Q50	02 10701 10702	٨
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VR501 IC50	02 Q501 03 Q517 Q701	^
A B RE27 → H= F501 R528 → H=	Q50	Q513 IC704	
S 0 CND C514 OHO C504 C5	VR505 Q504 VR506 Q504	Q703	
0 0 PB B-Y R829 0-v-0 C544 0-H-0 8 3 3 3 VB A R588 0-v-0 0 R551 0-v-0 C5270 H-0 C528 0 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1050	Q516 Q530 Q702 Q515	
0 0 23 0582 0 -0 -0 0 0 0 0 0 0 0 0 0 0 0 0 0	VR502 Q511	10705	
	1	IC707	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IC50	O7 IC506 Q658	}
	VR507	IC652 8 IC504 Q657 IC706	D
0 0 C579 0 HO 0 C579 0 HO 0 C574 0 HO 0 HO 0 HO 0 C574 0 HO 0 H			5
0 0 0/75578 0-11-0 5 0-31-0 0-4-0 0-11-0	VR701 VR652 Q531	Q532 Q656 I IC503	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VR655	Q705 IC505 Q655	
+13V REIB 000 C584 C574 C588 C574 C5	VR702	IC709	
TP903 GND 0-12-OC909 0-13V 1-13V 1-1		Q654	
RB67 0-0-0 1000 0 10000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000		IC65I Q653	
0901 0-H-0C1050-H-0 250 0-H-0 0-H-0 10 10 10 10 10 10 10 10 10 10 10 10 10	Q901	2 IC401 Q308 Q652 I Q307 IC302 IC710	
Color Colo	VR651 VR653 VR901	Q651	2
	VR901 VR654		1
0 0 23	VRI02 ICI02 VR802		
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VRIOI	Q303 IC812 IC808 IC811 IC809 Q306	
1 0 0 15 VRIDI 8 3 3 3 5 5 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	VR301 VR304 VR302	Q305 Q304 IC804 Q802	
20 CS17 ONO CEVEL NOTE ON	VR303 Q105	10803 [0806	
0 0 8128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Q104	Q106 _{IC801} IC810 IC201 Q310	,
0 0 87	ICIOI	Q207 Q312	
C S C C	VR80I	Q109 0303 IC805 E)
() A) B G101 R107 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VR201 Q102 Q103 ICI05	Q107 Q204 Q108 IC303 Q801)
P751 P101 R220 P751 OND -4 RV P251 P201 P201 P201 P201 P201 P201 P201 P20		Q206 Q803 Q208 IC802	
CN326 6 5 PALA GCMK-18X GND 4			
1 2 3 4 5		6	

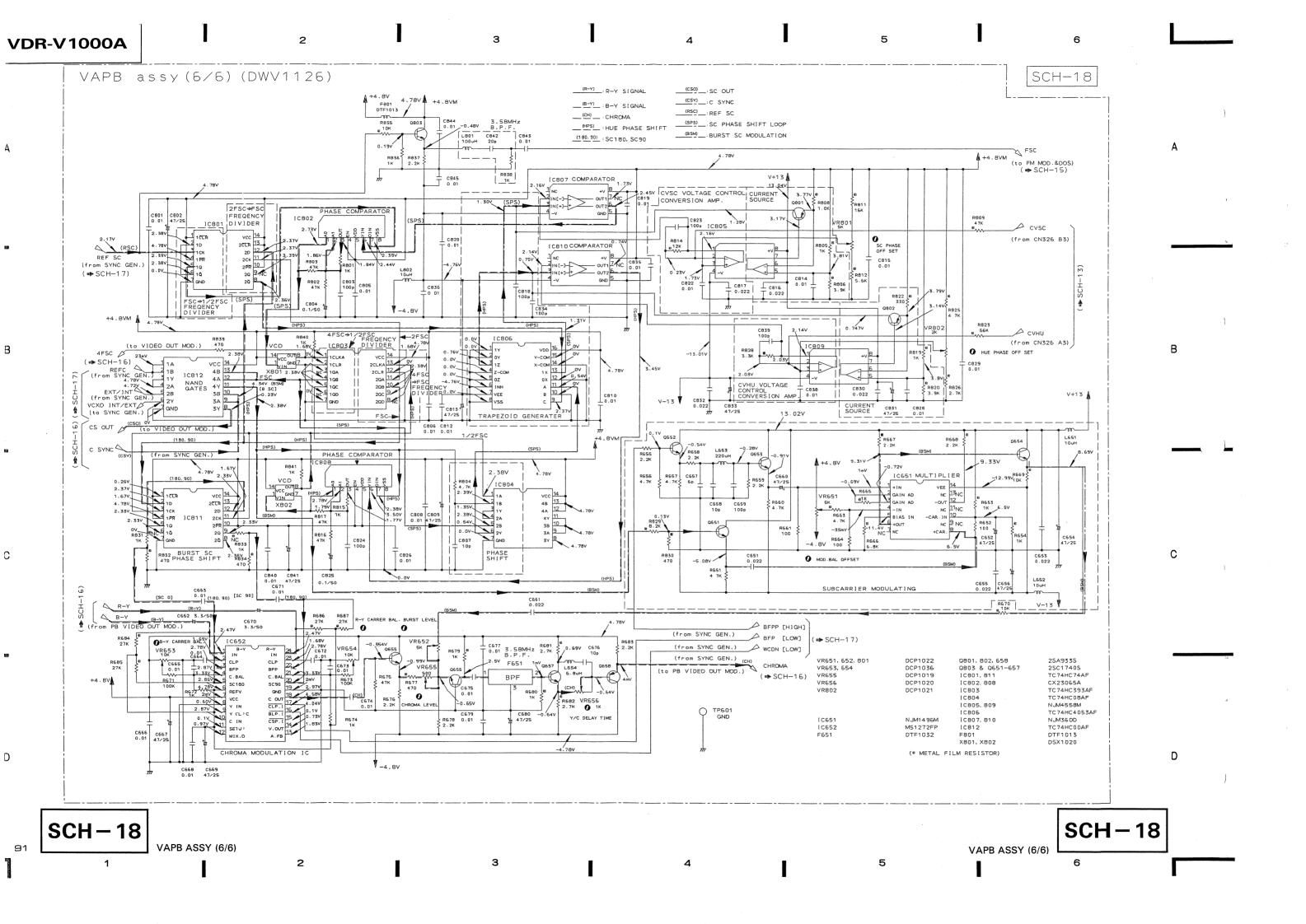


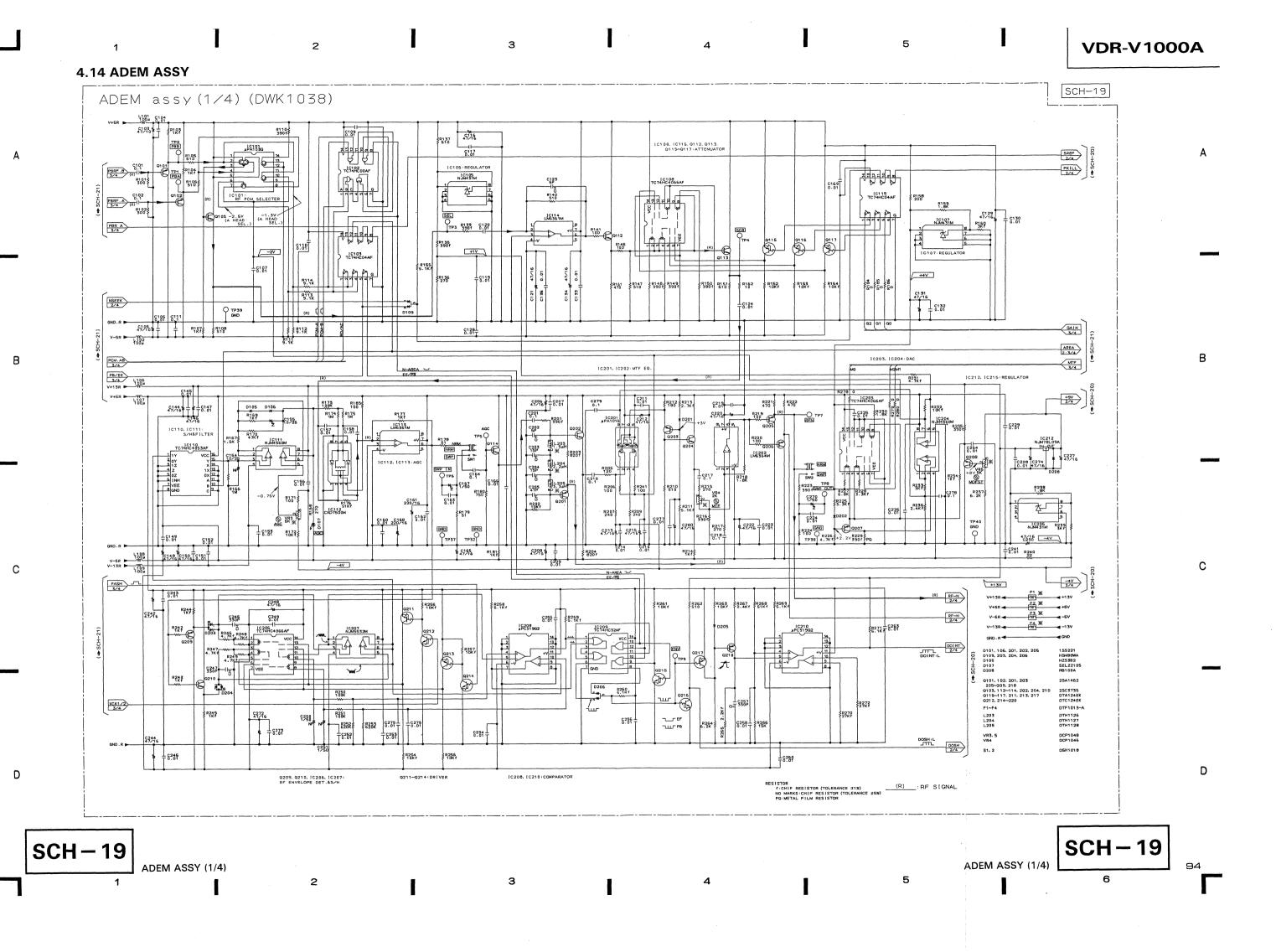


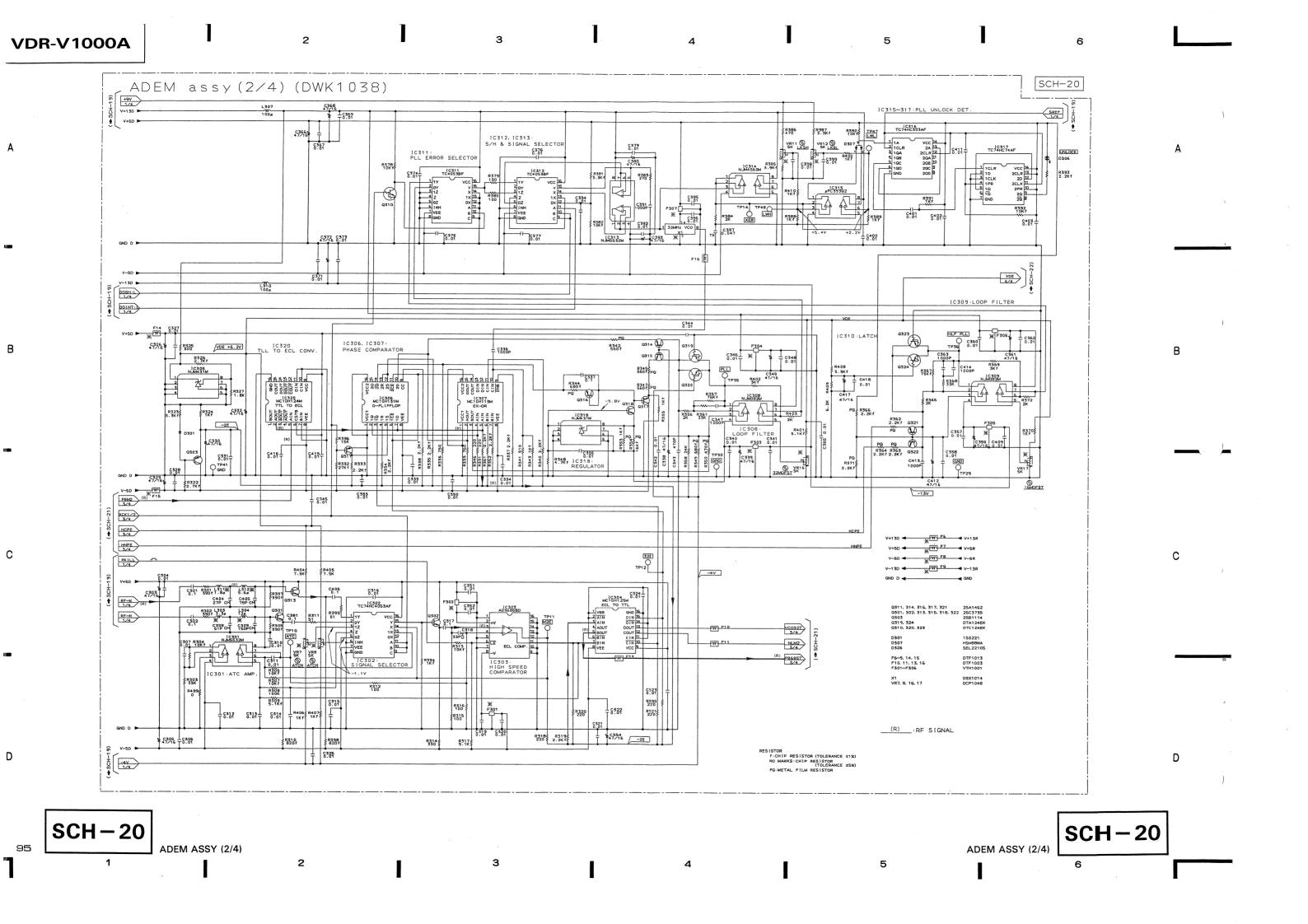


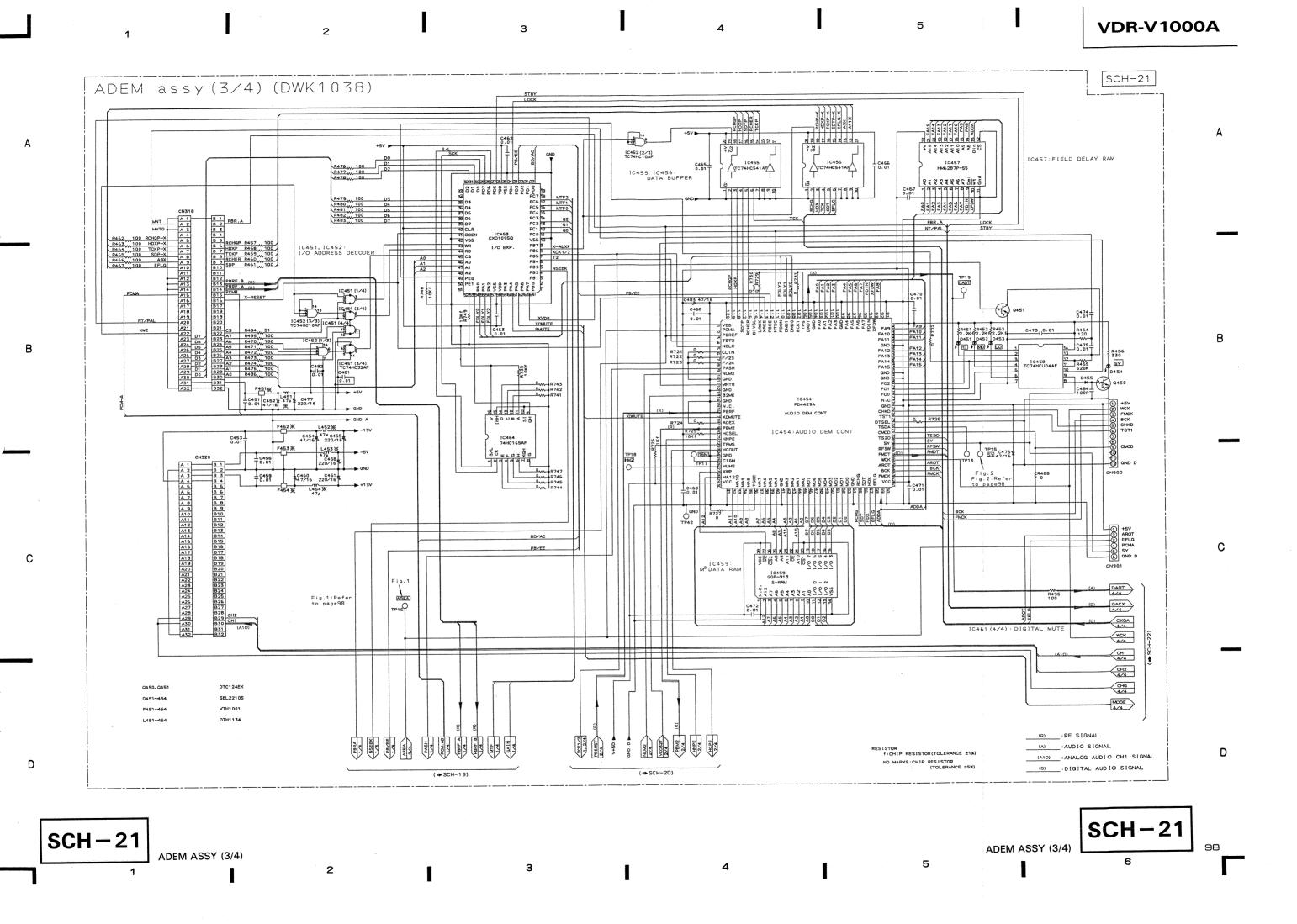


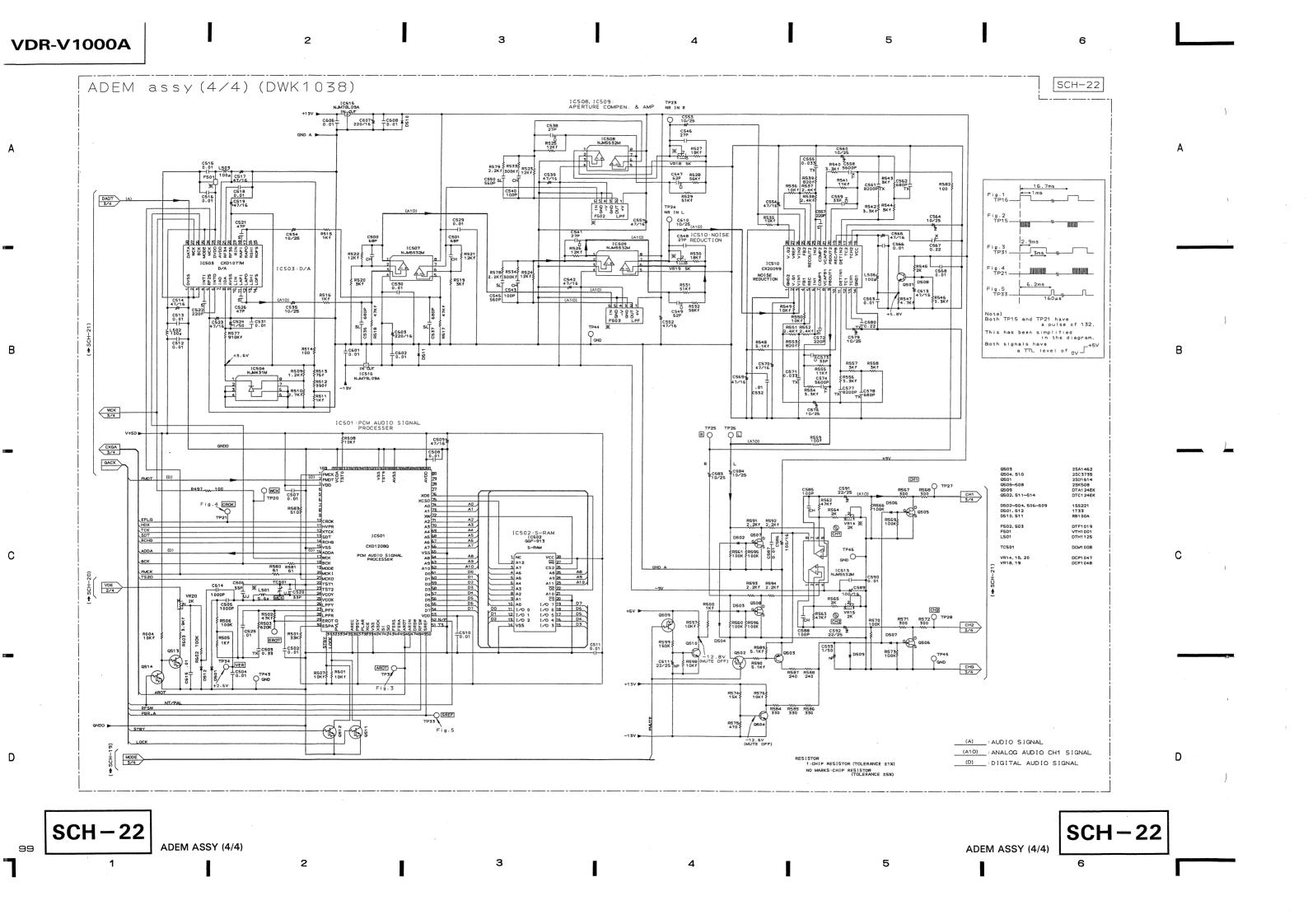










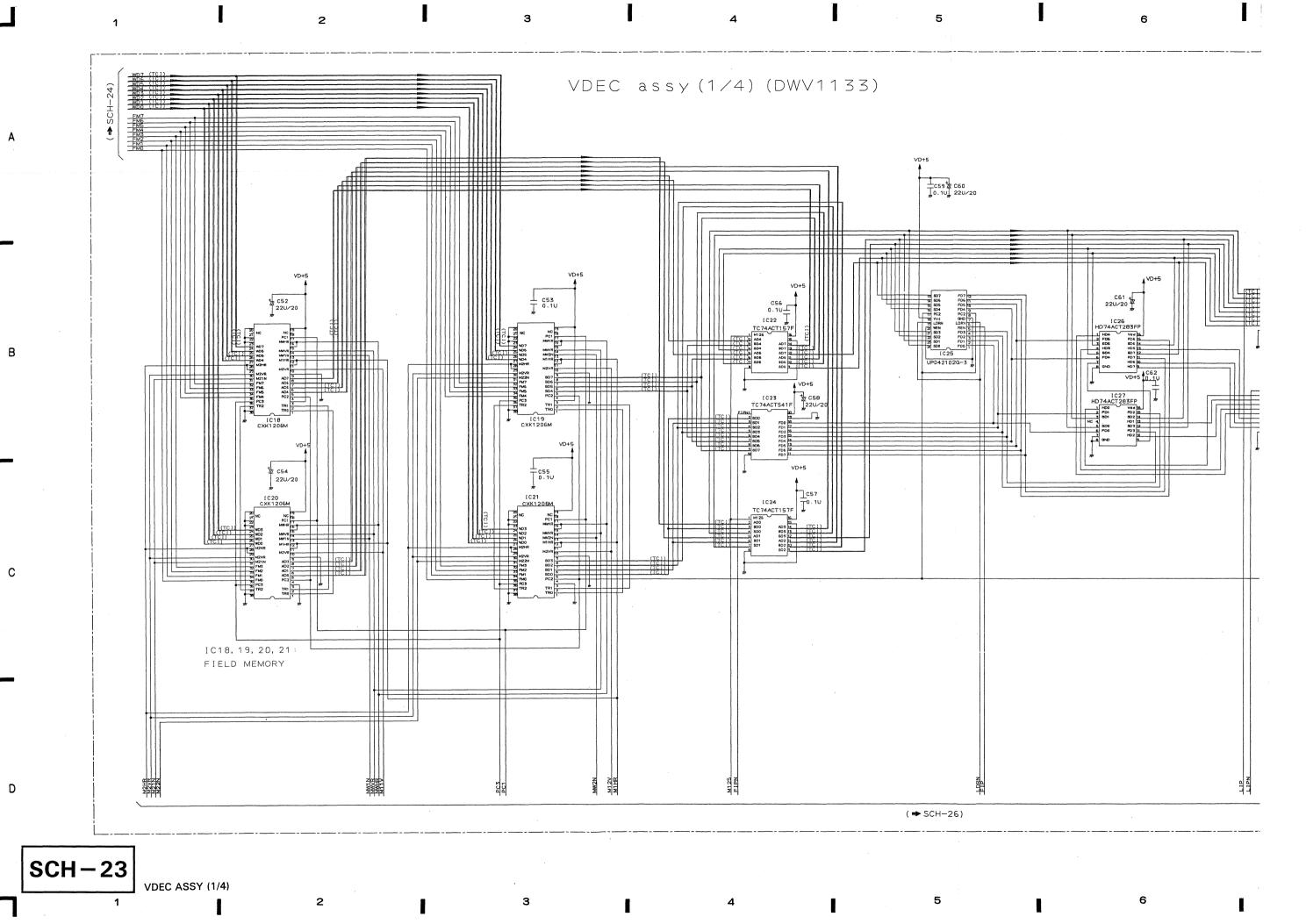


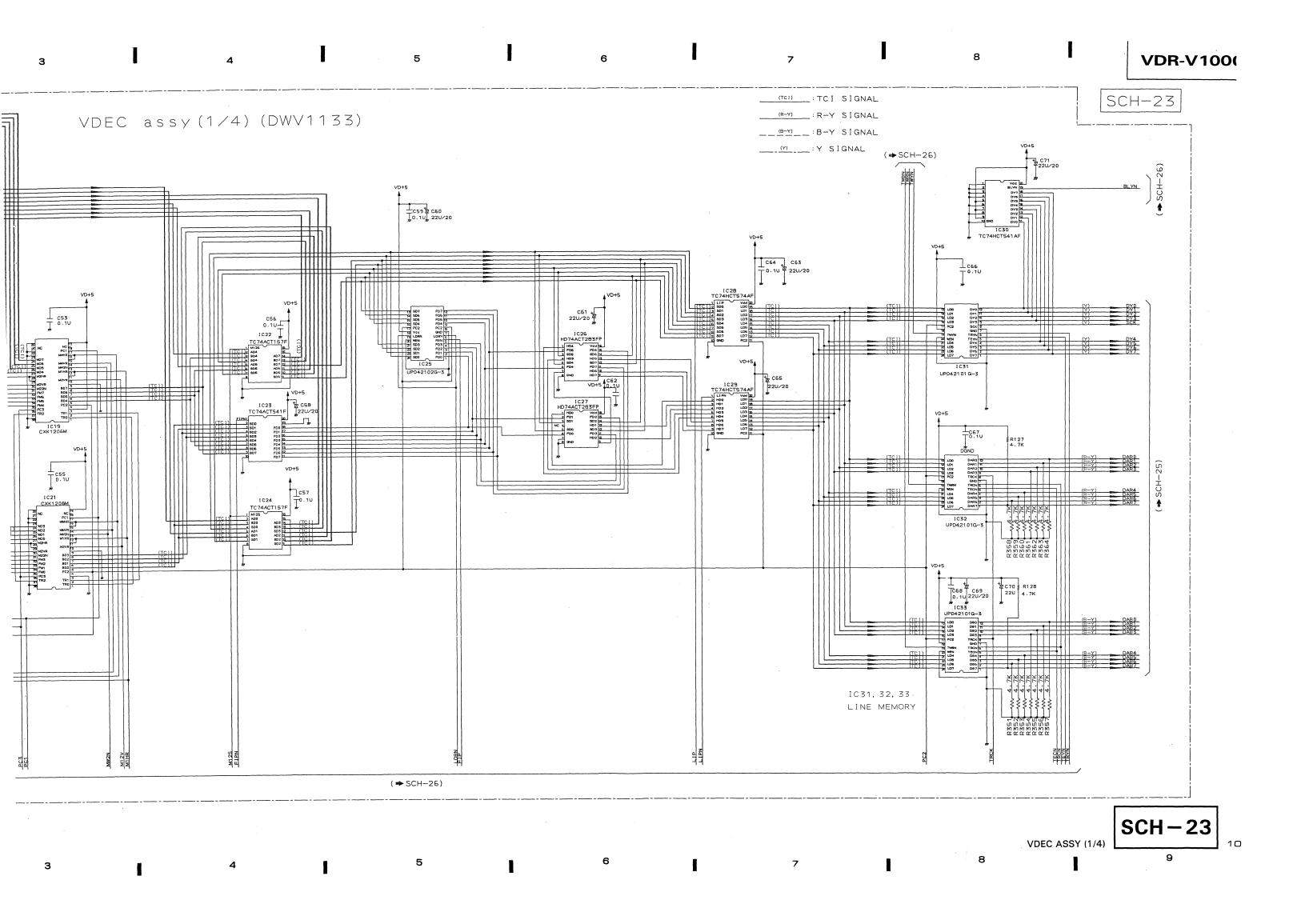
В

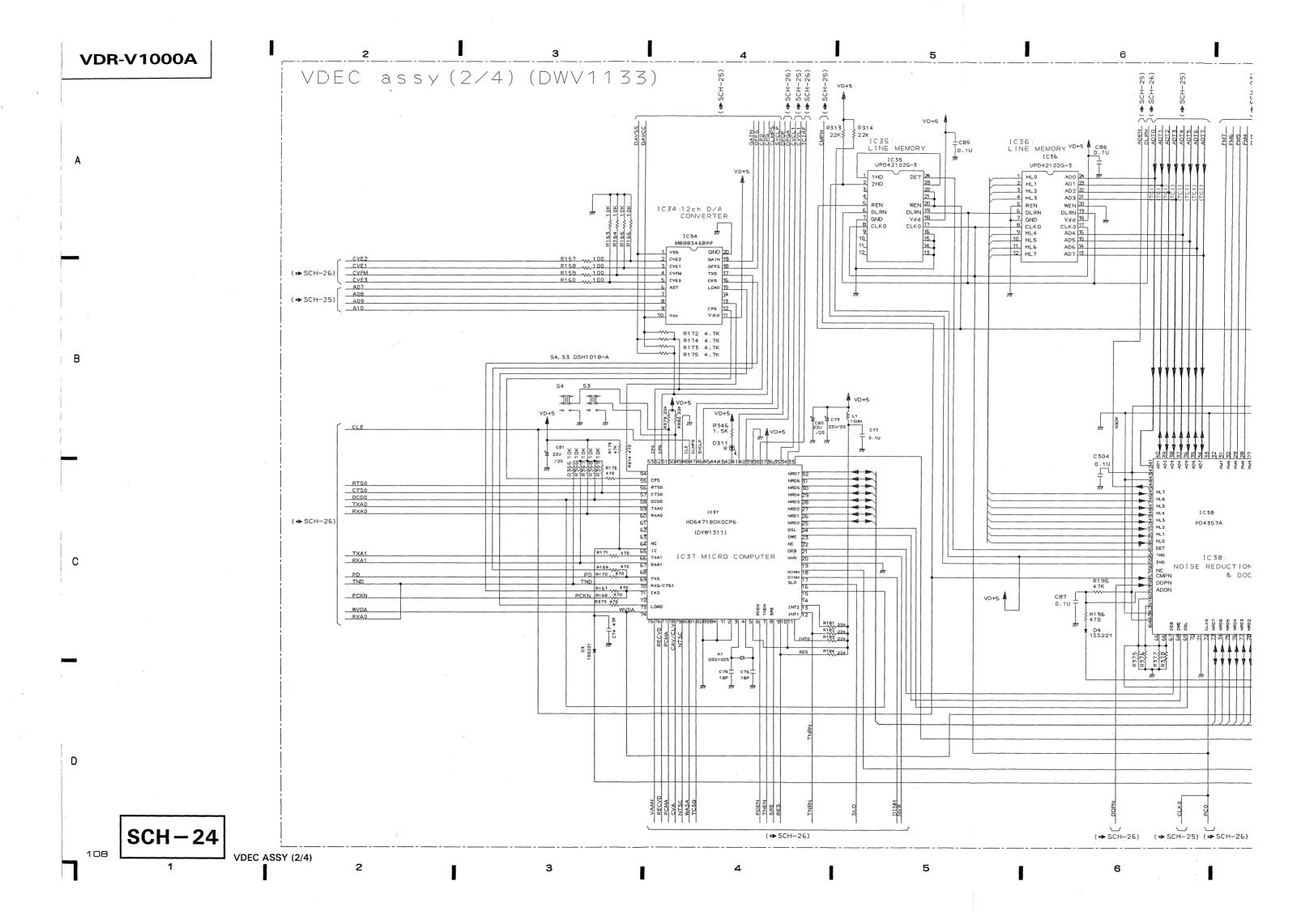
С

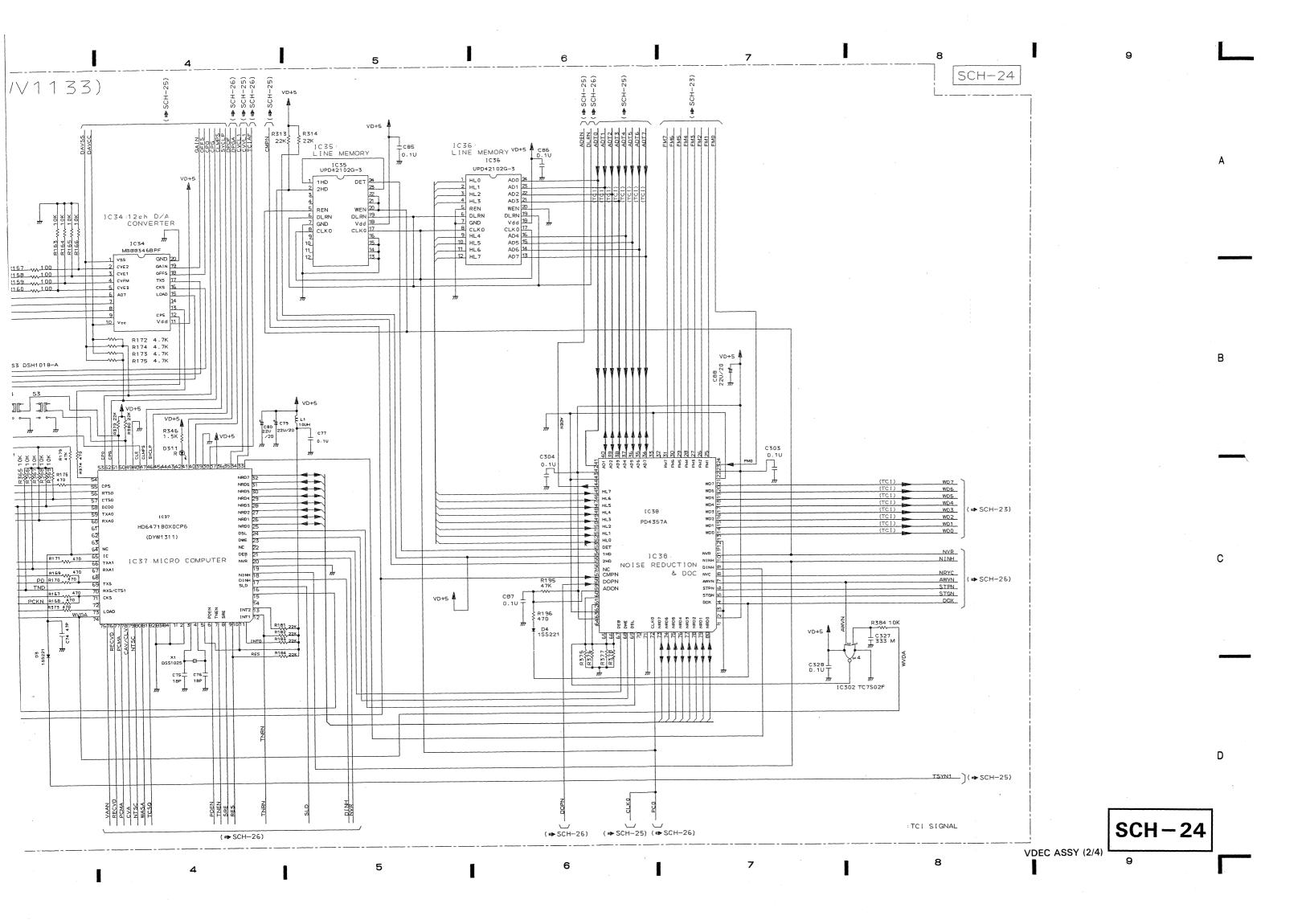
D

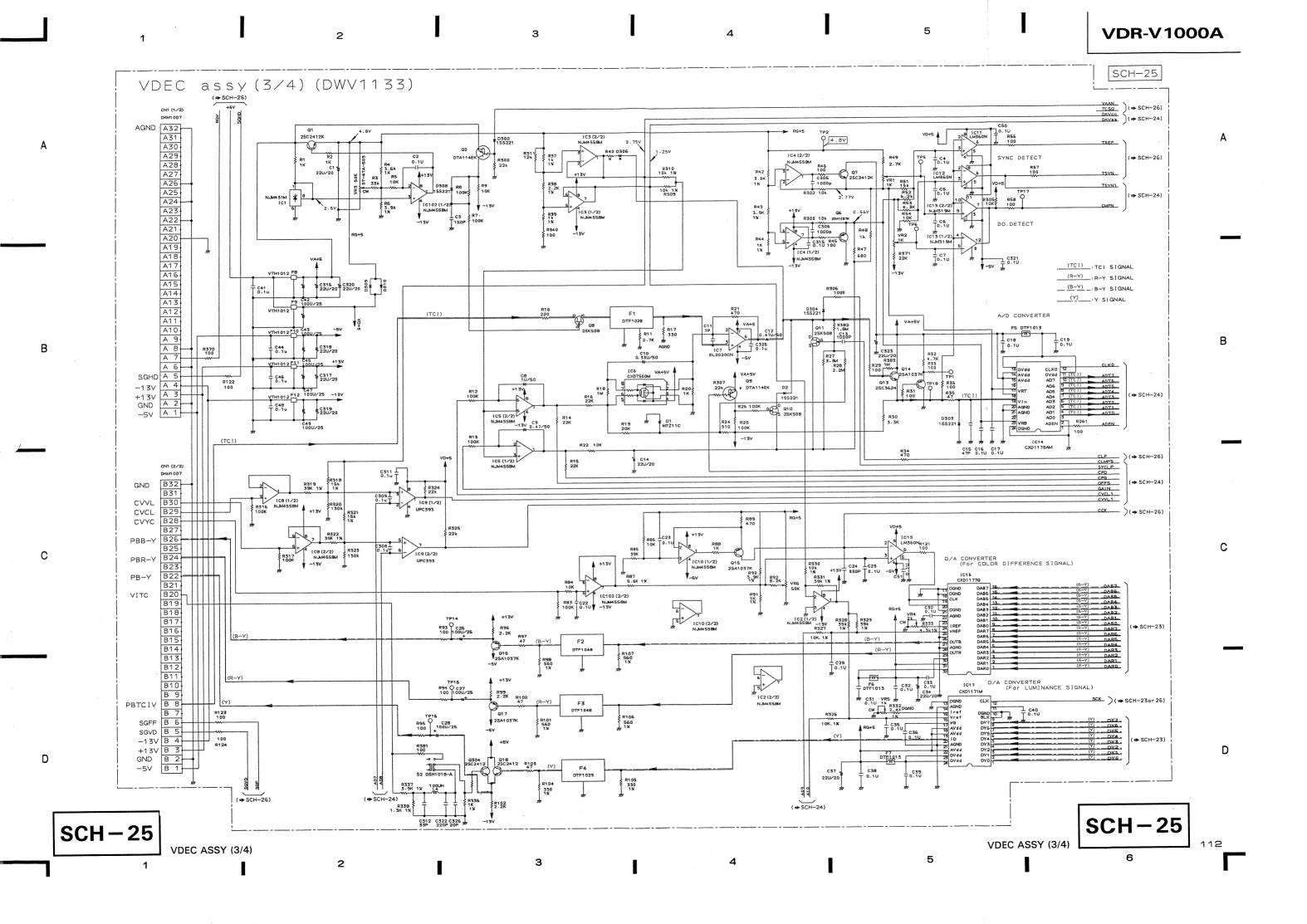
VDR-V1000A

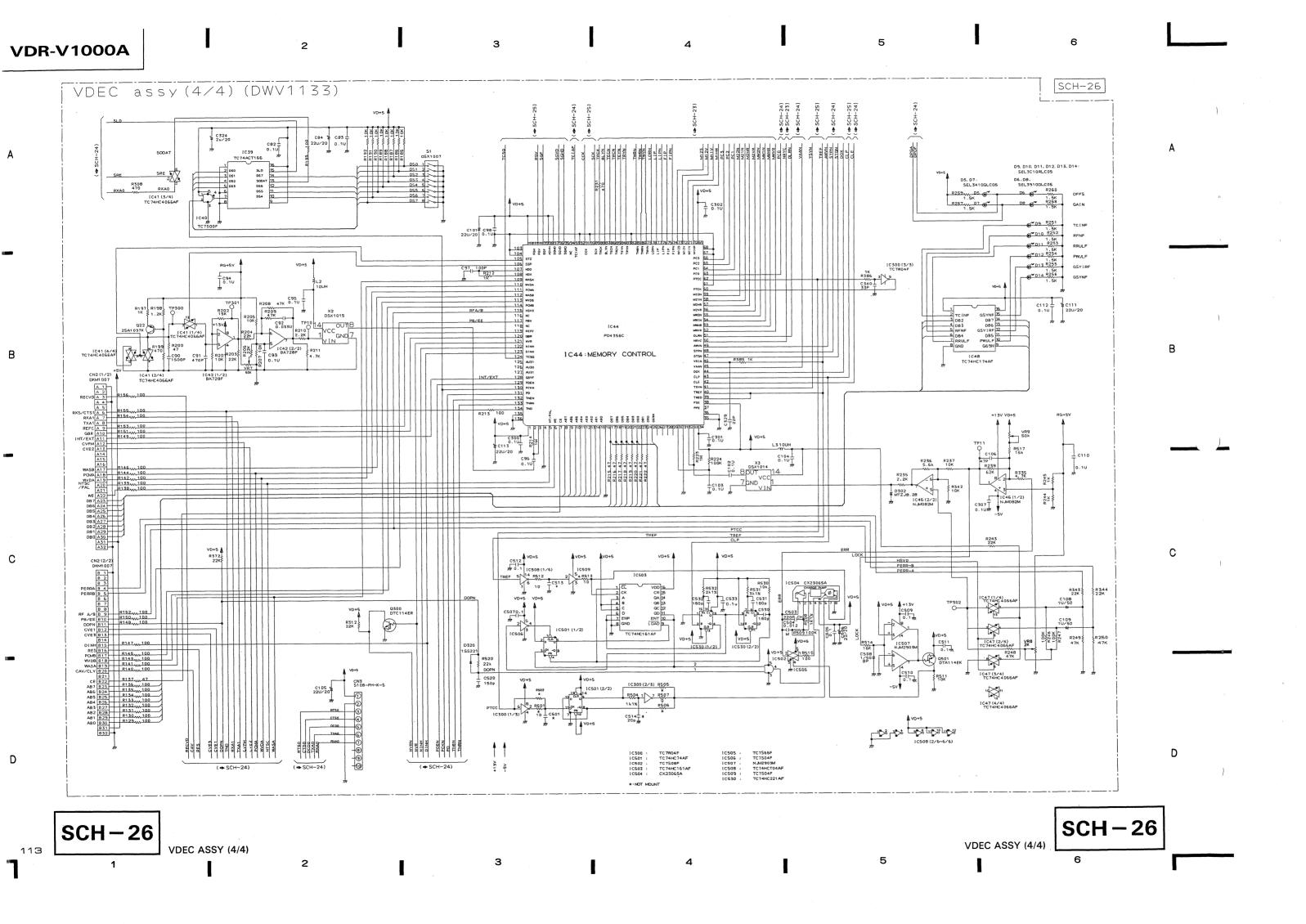


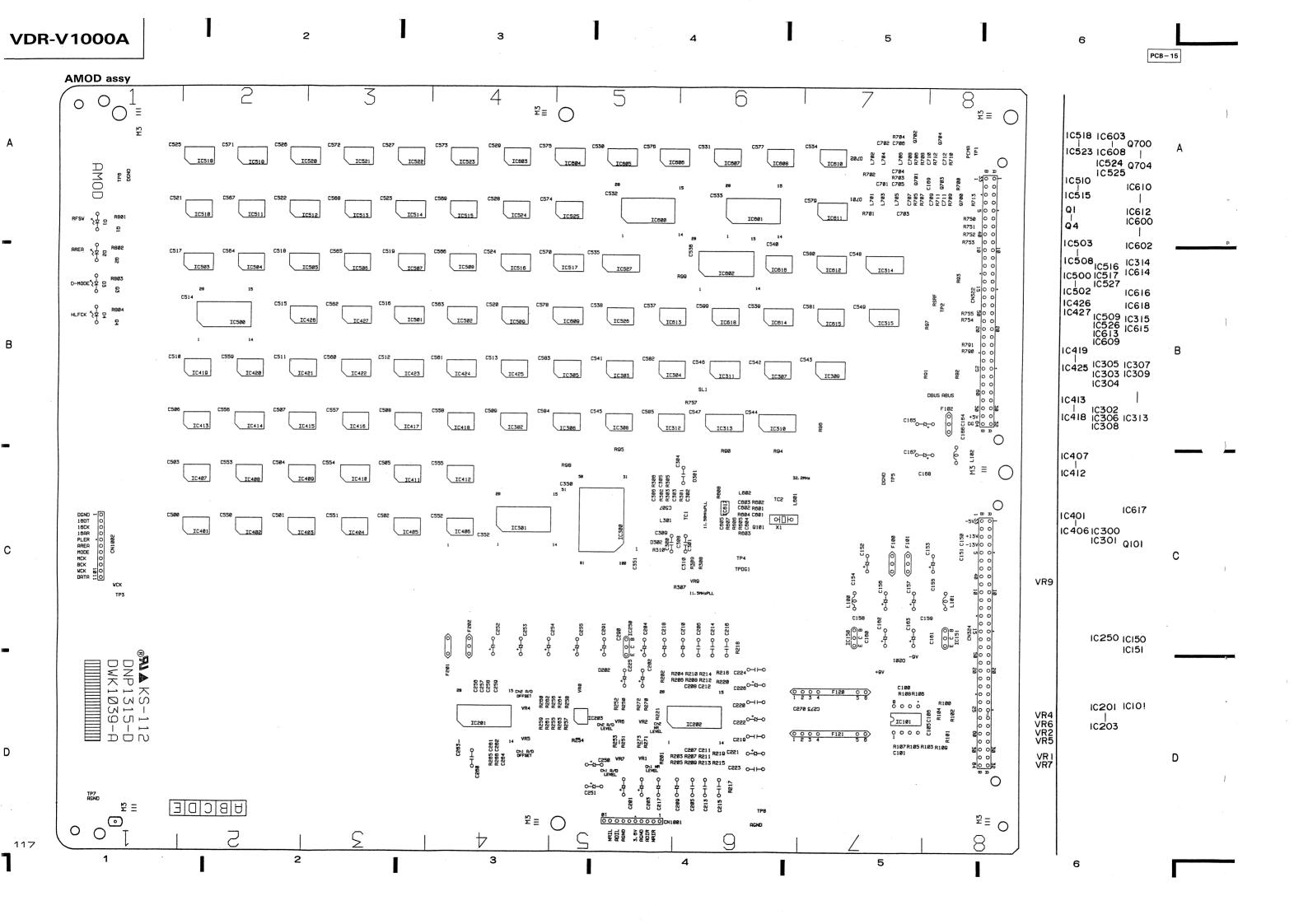




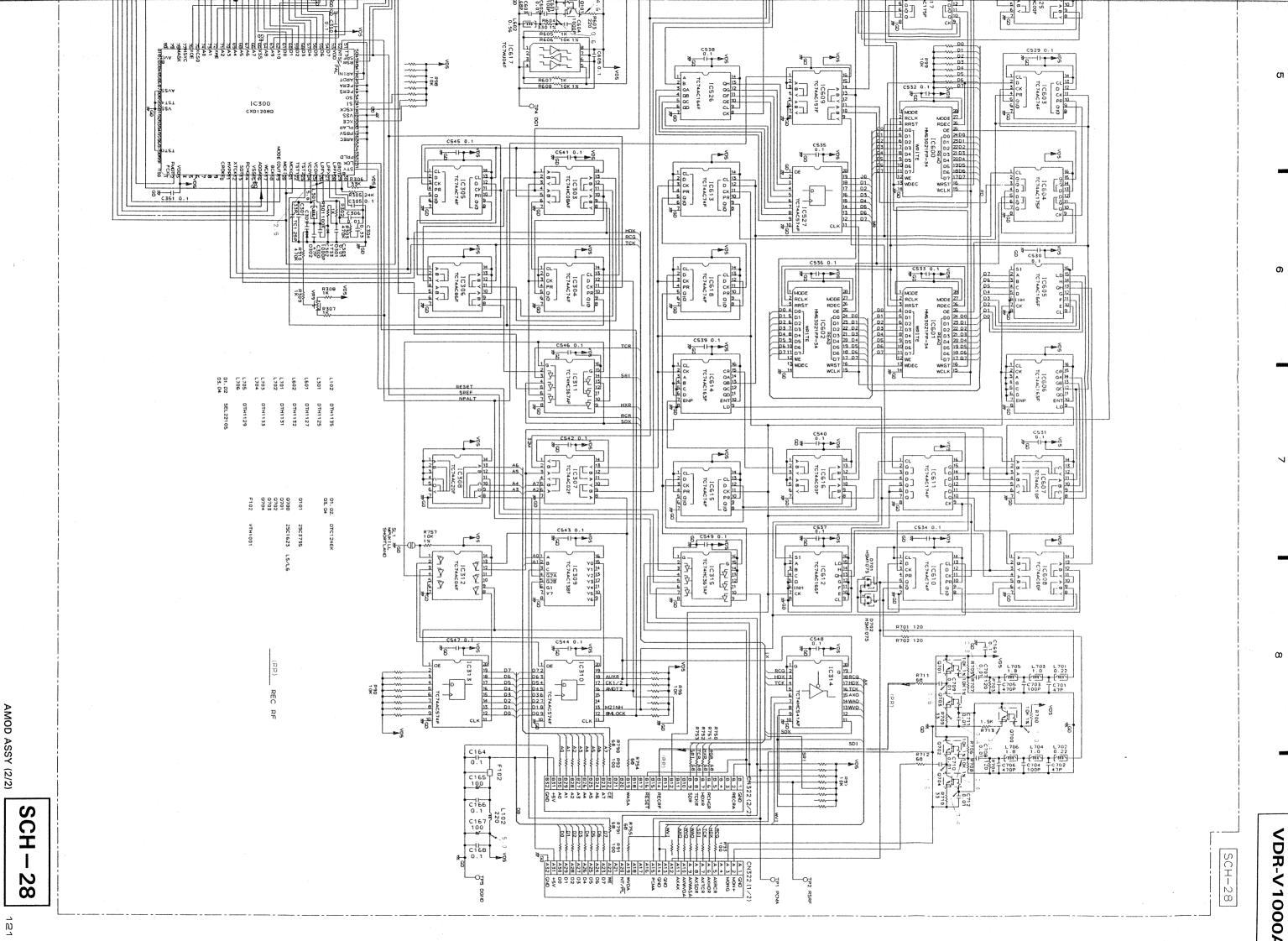










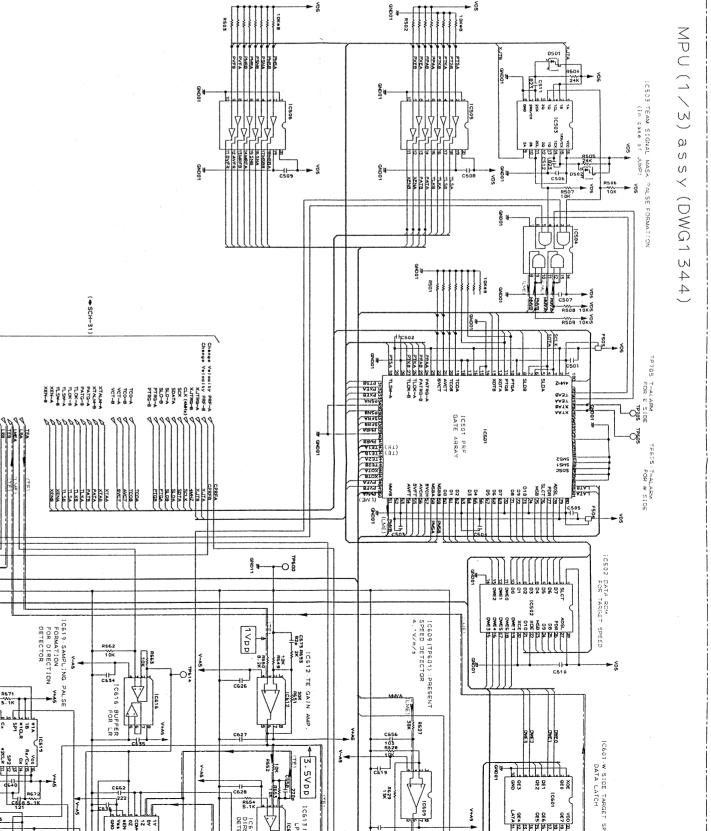


9

ω

o

4.17 MPU ASSY



0601, 701: DTC124EK D601, 701: 1SS123-T2B D602~609, D702~709: 1SS220

-O#

712 TE

GAJN AMP

3.5Vpp v-A9

103 8728 10K

(TE) C756 (C7)

R762

12K R749

6728 R754 5.1K DM C 77

m

O

220/6.3 QN011 220/6.3 W V-A5

JONEO JONEO

VGC 20 DWE 7 19 DWE 7 19 DWE 7 19 DWE 15 DWE

ic705(TP701) E Side PRESENT SPEED DETEC (ABSOLUTE VALUE) [4.1V/m/s

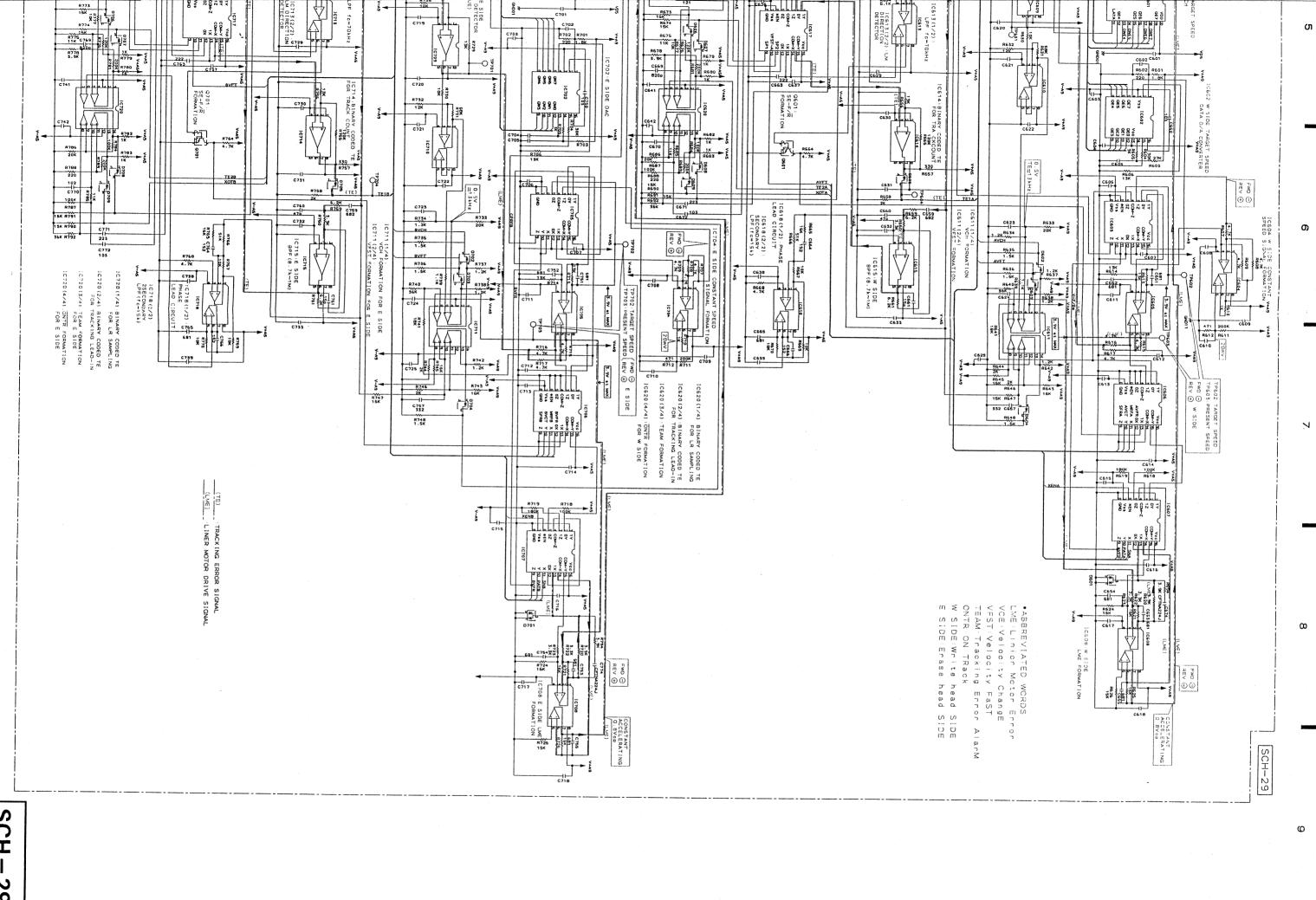
O

SCH

m

29

MPU ASSY (1/3)



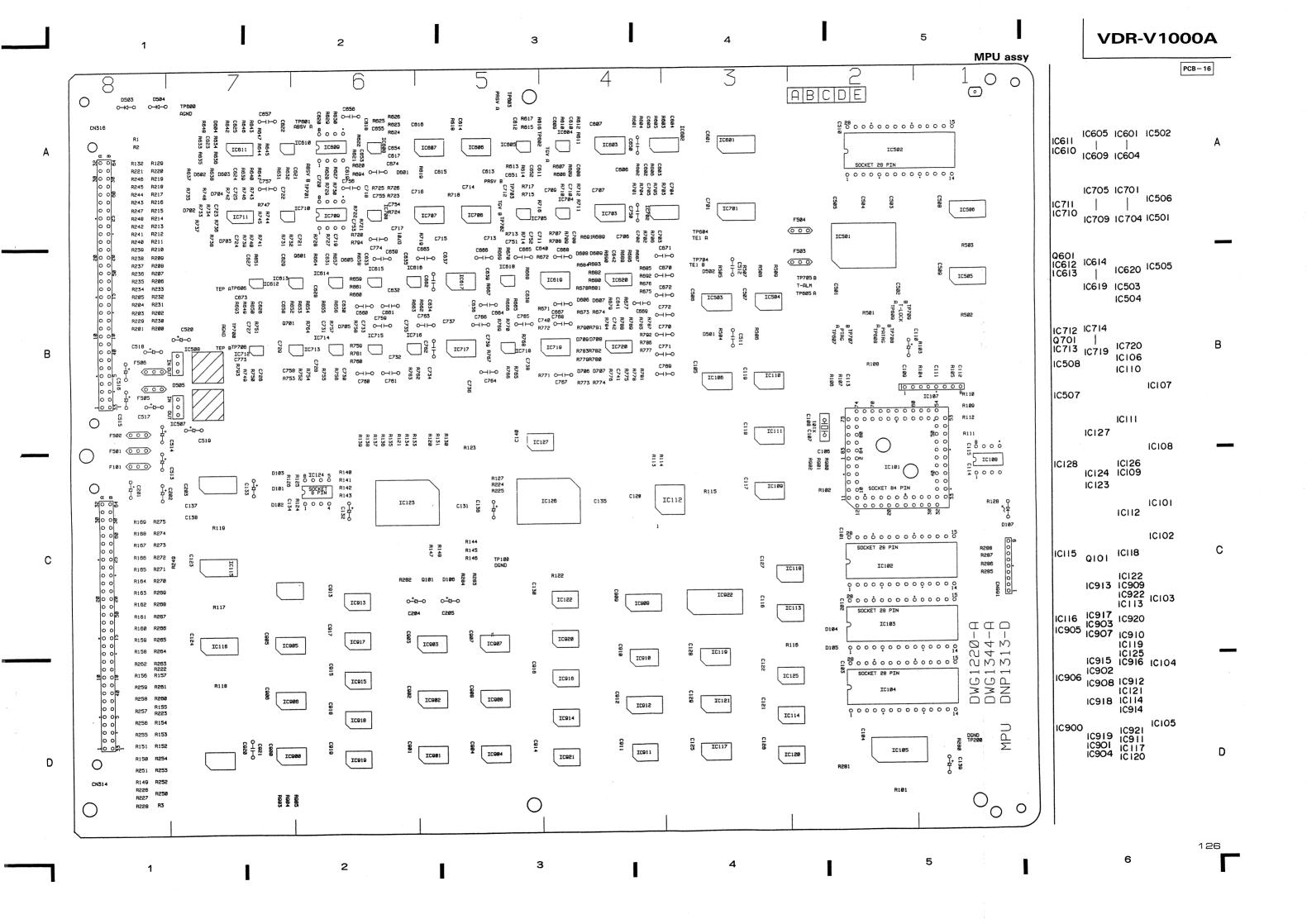
SCH 29

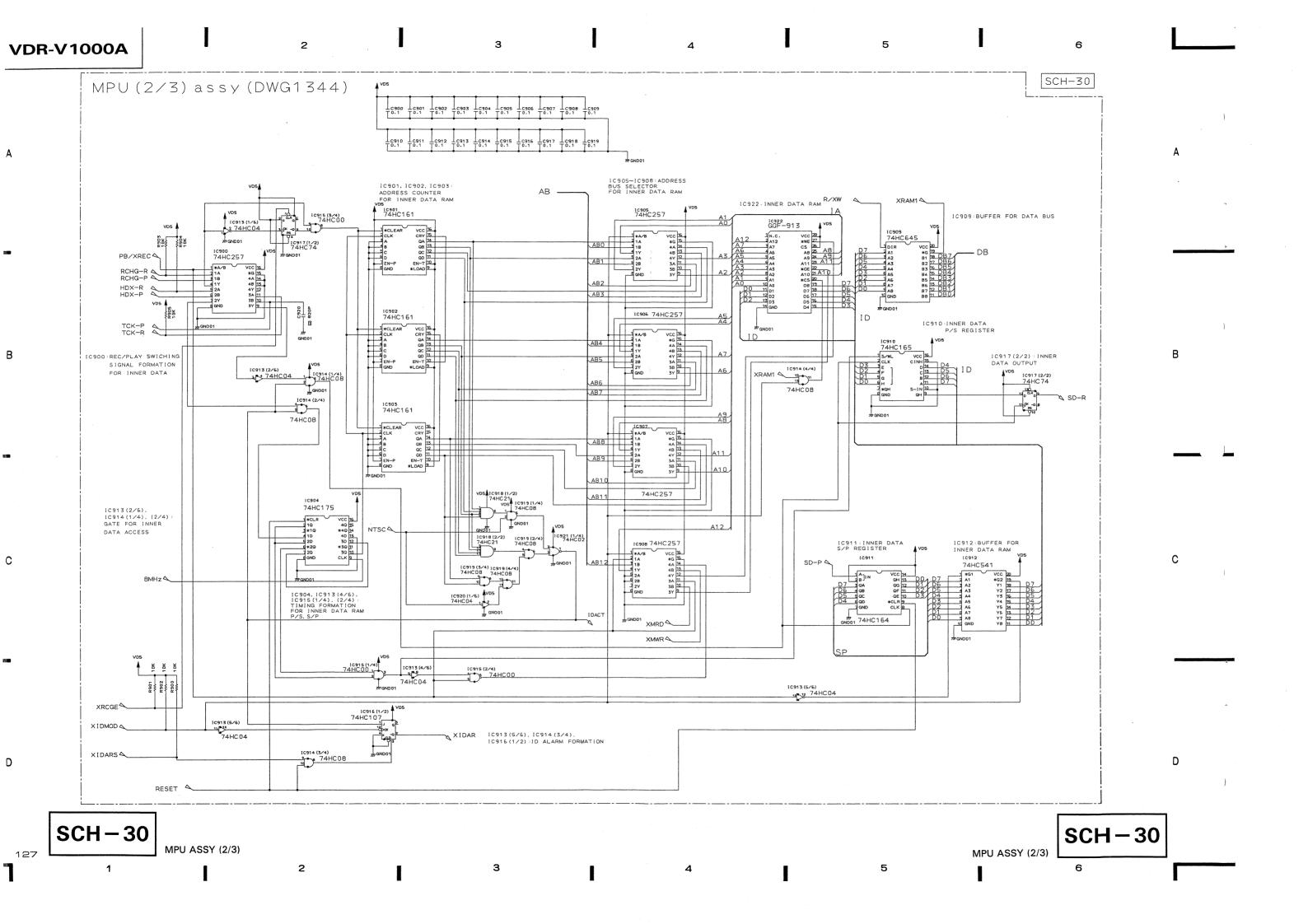
חד

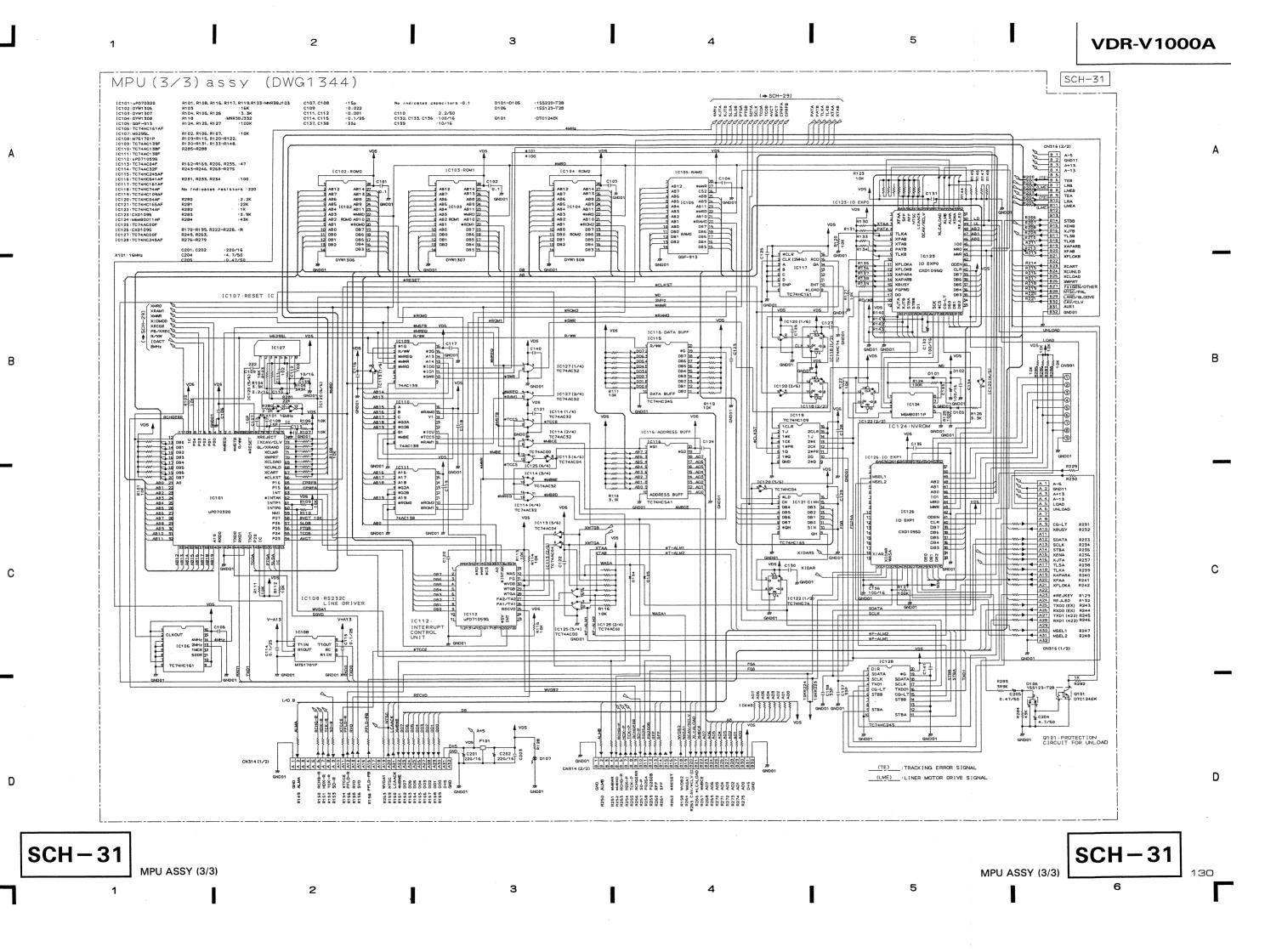
m

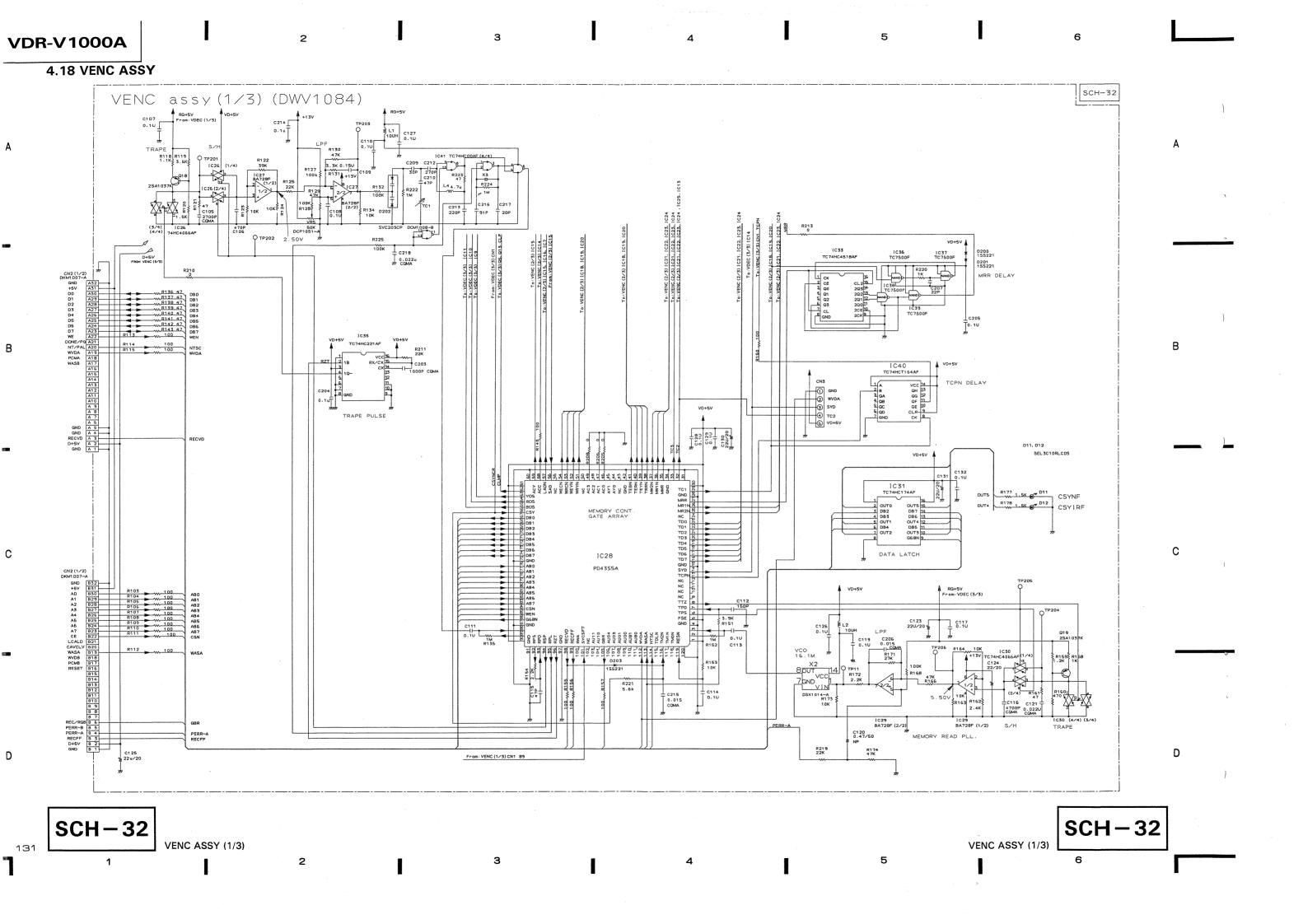
0

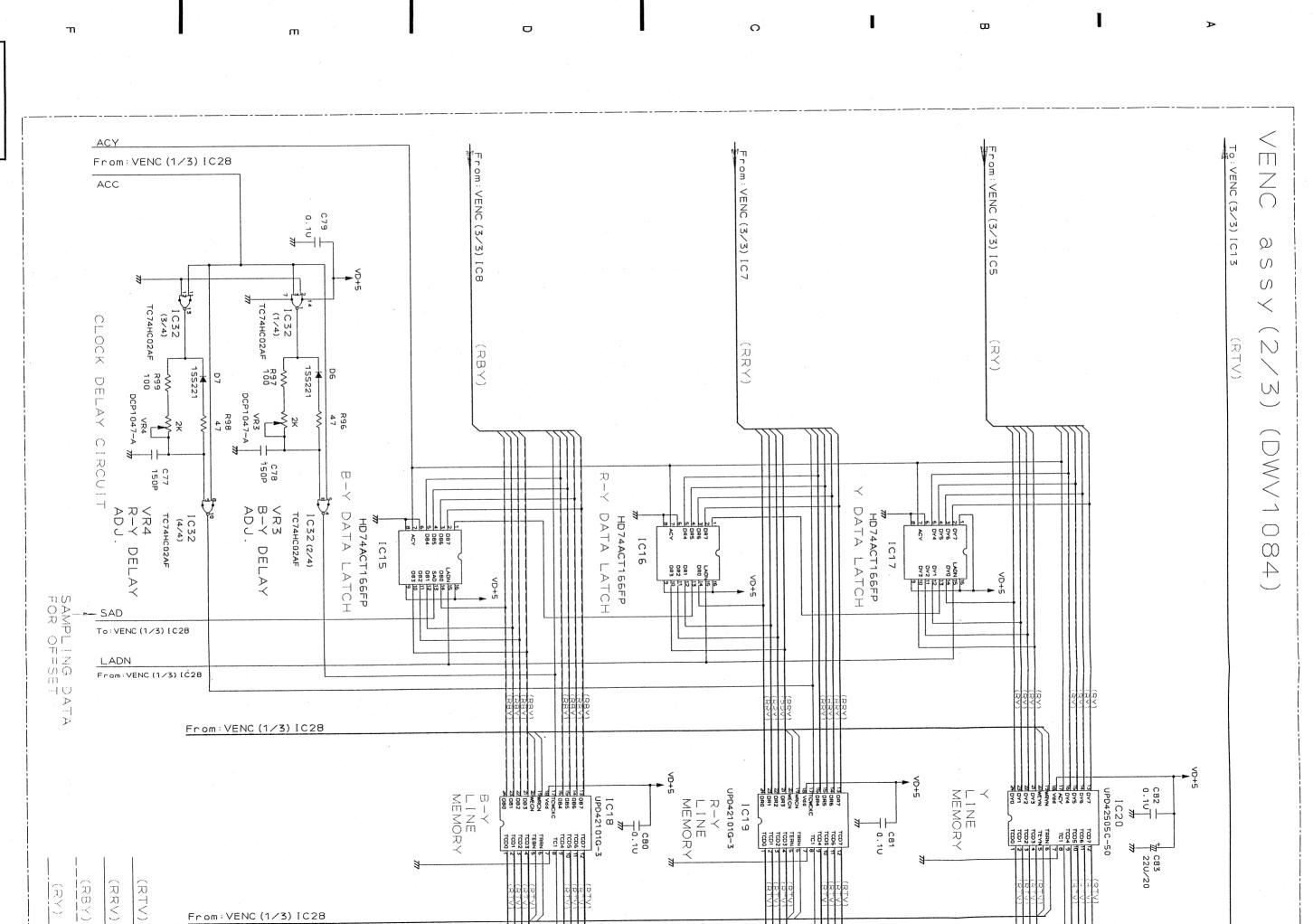
O





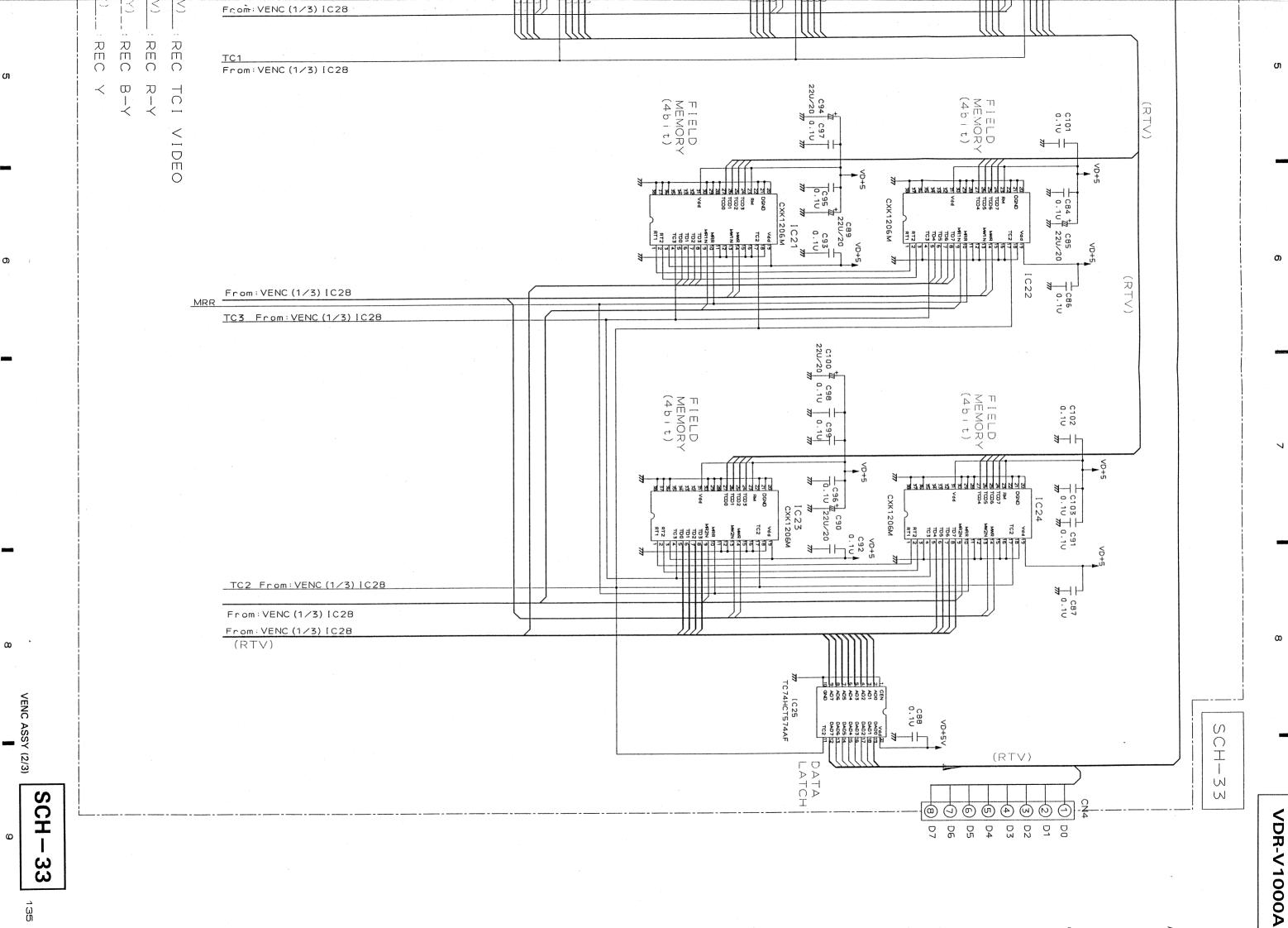






SCH-33

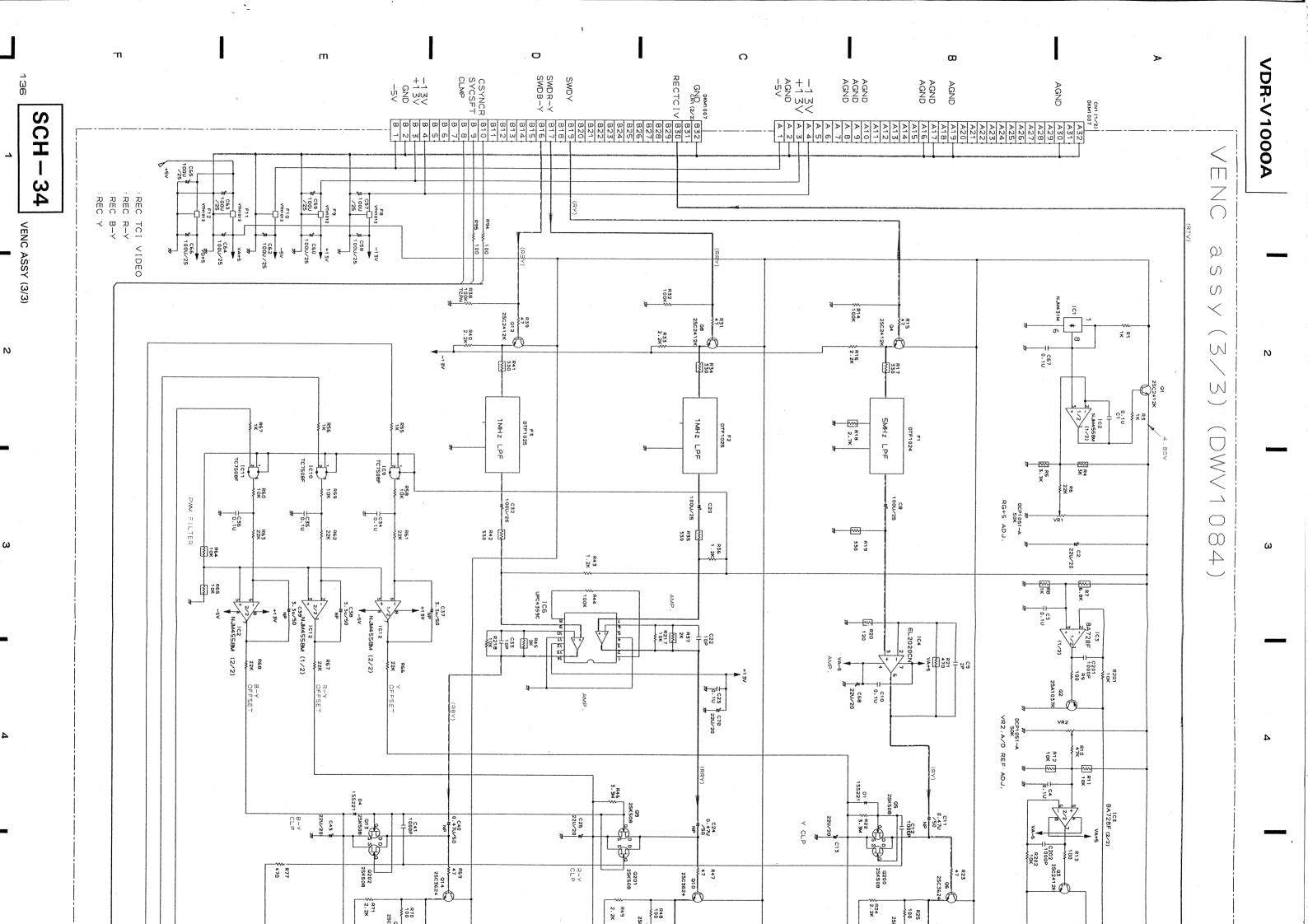
VENC ASSY (2/3)

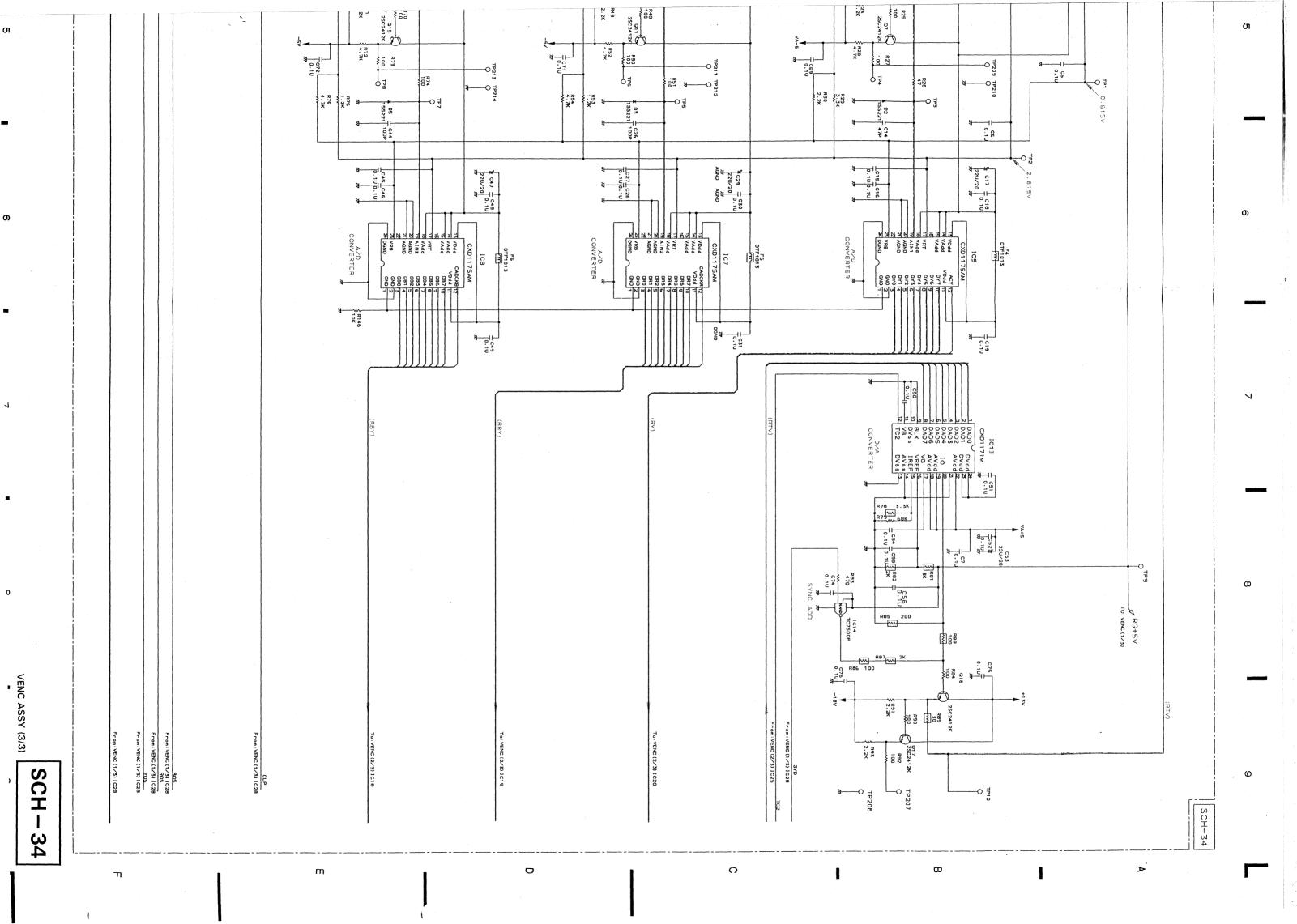


9

 ∞

O





2

В

D

5

VDR-V1000A

PCB - 18

SPDL assy 4 0 IC214 IC216 \circ IC219 GNDD 0 0 0 0 0 0 0 16 0 0 0 0 0 0 16 0 0 0 0 0 0 0 TC209 V+5D 0000000 16 . 0 0 0 0 0 0 0000009 00000000 0000000 GCMK-41X 0 0 0 0 0 0 0 0 0 1 IC203 R245 0-0-0 R260 0-0-0 R259 <u>>⊙ ∘ ∘ ∘ ∘ ∘ ∘ ∘</u> %O 0% R245 0000 R259 R242 0000 R257 R241 0000 R256 0000 R255 P349 0000 R255 GNDD 0-11-0 ICS0S 16 · 0 0 0 0 0 0 0 20 1 IC213 0 0 0 0 0 0 0 0 0 0 0 0 R239 000 000 R254 0000000 00000000 ICS08 V+5D 0-11-0 C203 GNDD R262 0~~0 0~4~0 D204 R2Ø4 0~~0 V+5D R2Ø5 V+50 IC220 14 0 0 0 0 0 0 0 C212 OTFO 14 0 0 0 0 0 0 R1Ø1 \circ IC101 8000 0000009 IC103 0000009 0 0 R234 0 0 0 R247 14 0 0 0 0 0 0 0 0000000 IC104 16 0 0 0 0 0 0 0 8000 IC207 0-^^-0 R231 0~~0 0~~0 0~~0 R232 R263 .R264 0 0 R246 0~~0 R232 R263 R264

R252 R263 R264

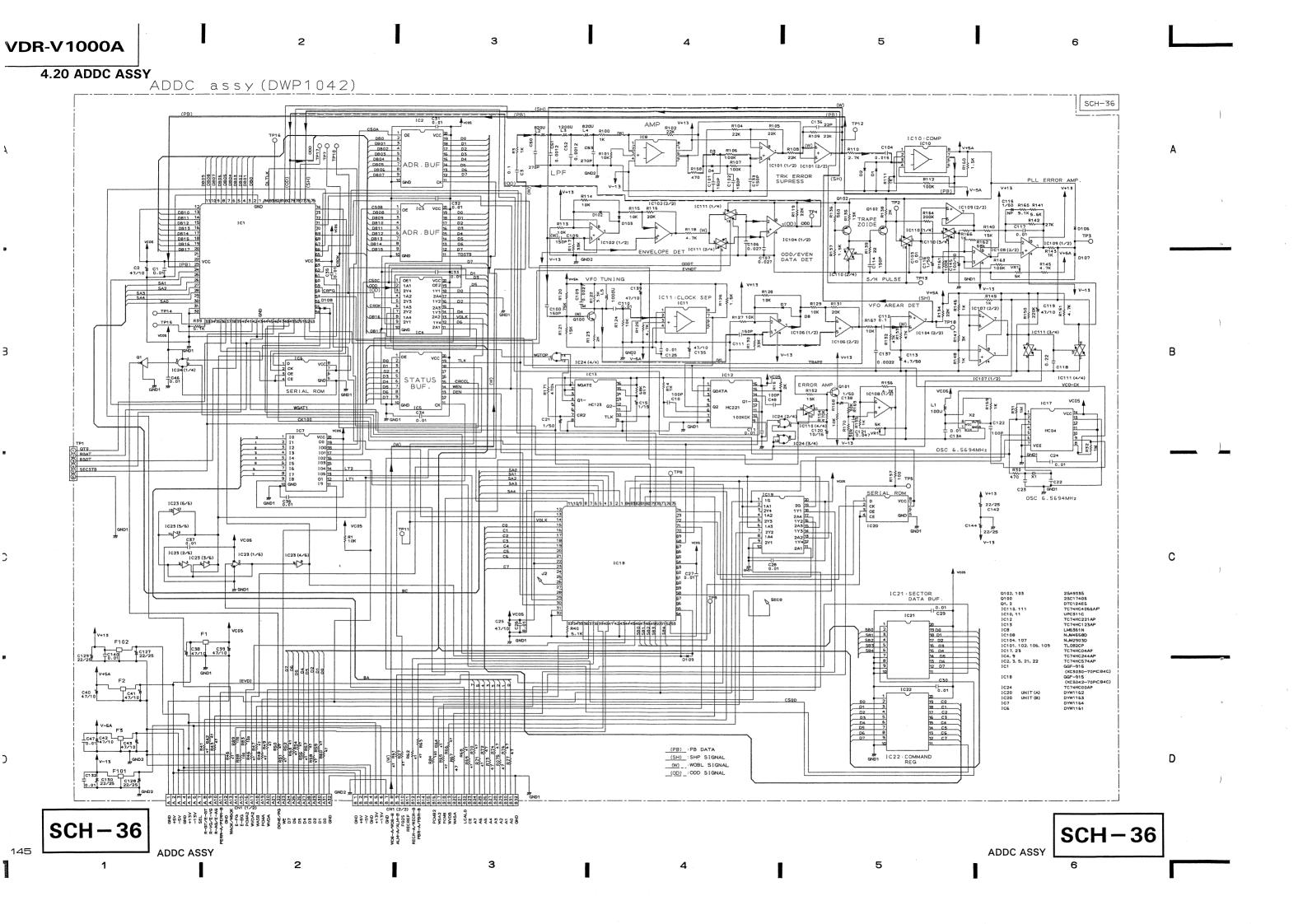
R252 R263 R264

R252 R263 R264

R252 R263 R264 0 0 0 0 0 0 0 0 0 0 F102

0 0 0 F103

0 0 0 F1 C109 8000 12 v+5A 8000 IC206 14 0 0 0 0 0 0 0 R141 OHO C115 0000009 DNP1330-C DWS1140-A IC106 DWS1190-A R109 R108 \bigcirc 10201 10202 10209 IC203 IC214 IC212 IC2I5 IC2II IC219 IC216 IC213 10210 10207 10204 10205 10208 QIOI ICIO3 IC104 IC220 10101 Q108 IC107 Q109 IC206 10106 ICIO2 Q102-Q107 10105



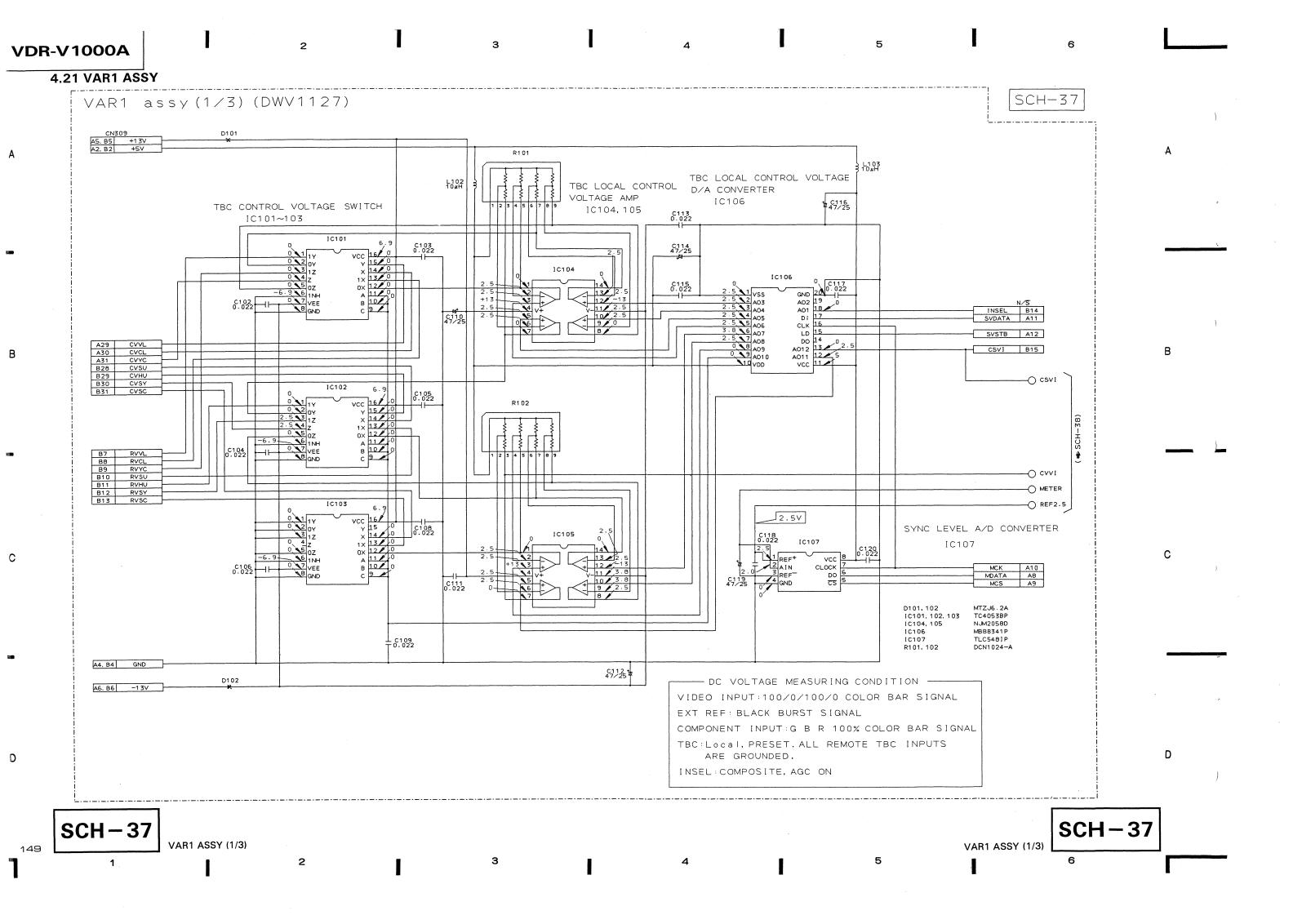
PCB - 19

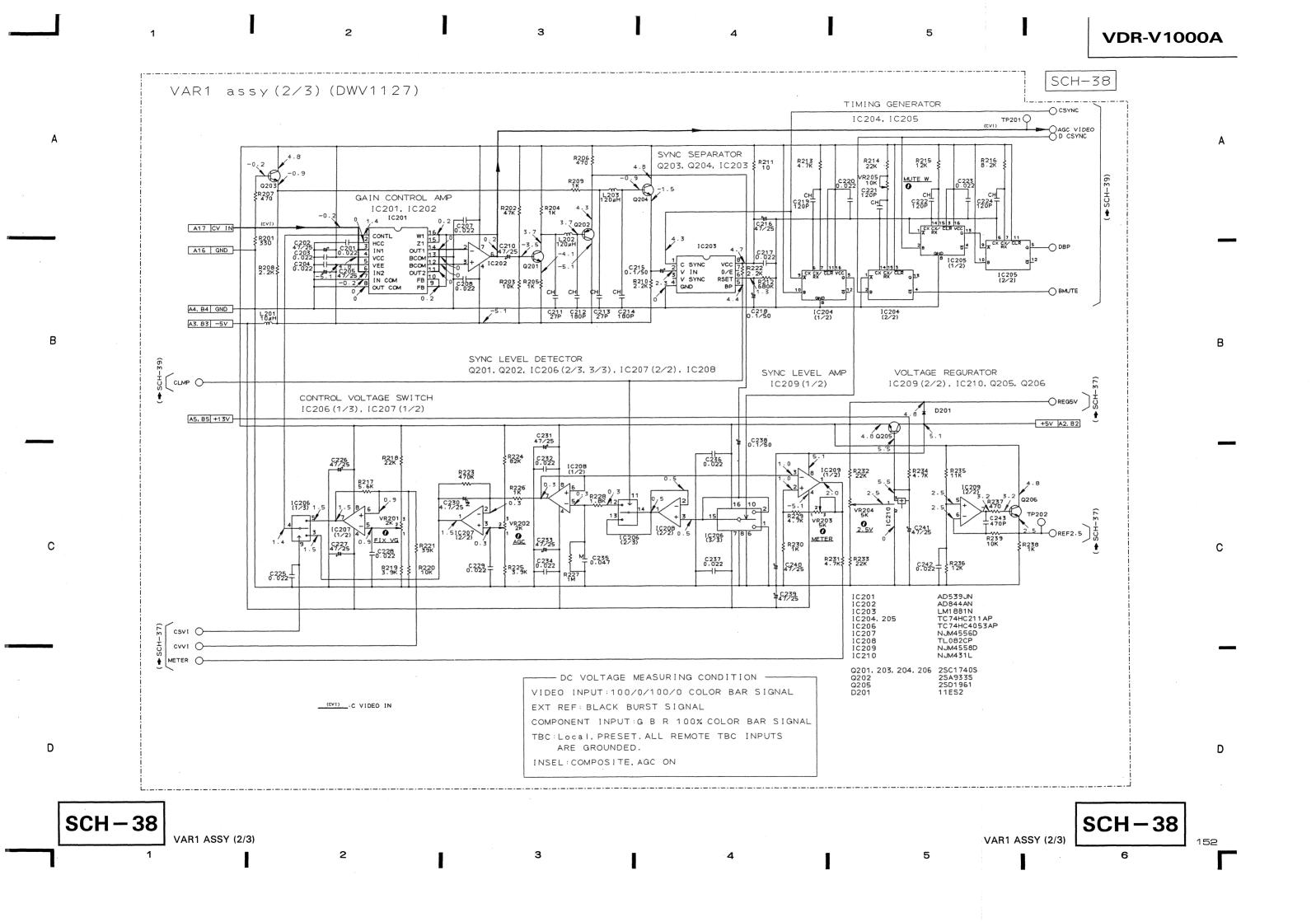
ADDC assy 5 3 റ 8 \bigcirc IC110 IC108 IC109 TC24 R77 0 R76 R75 R75 0 IC4 VR2 ERROR R155 IC5 C33 28 IC4 111 OHHO O O O O O O O O \circ 14 0 0 0 0 0 0 8 0 0 0 8000 0 0 0 B C120 0 RIST ON CITY

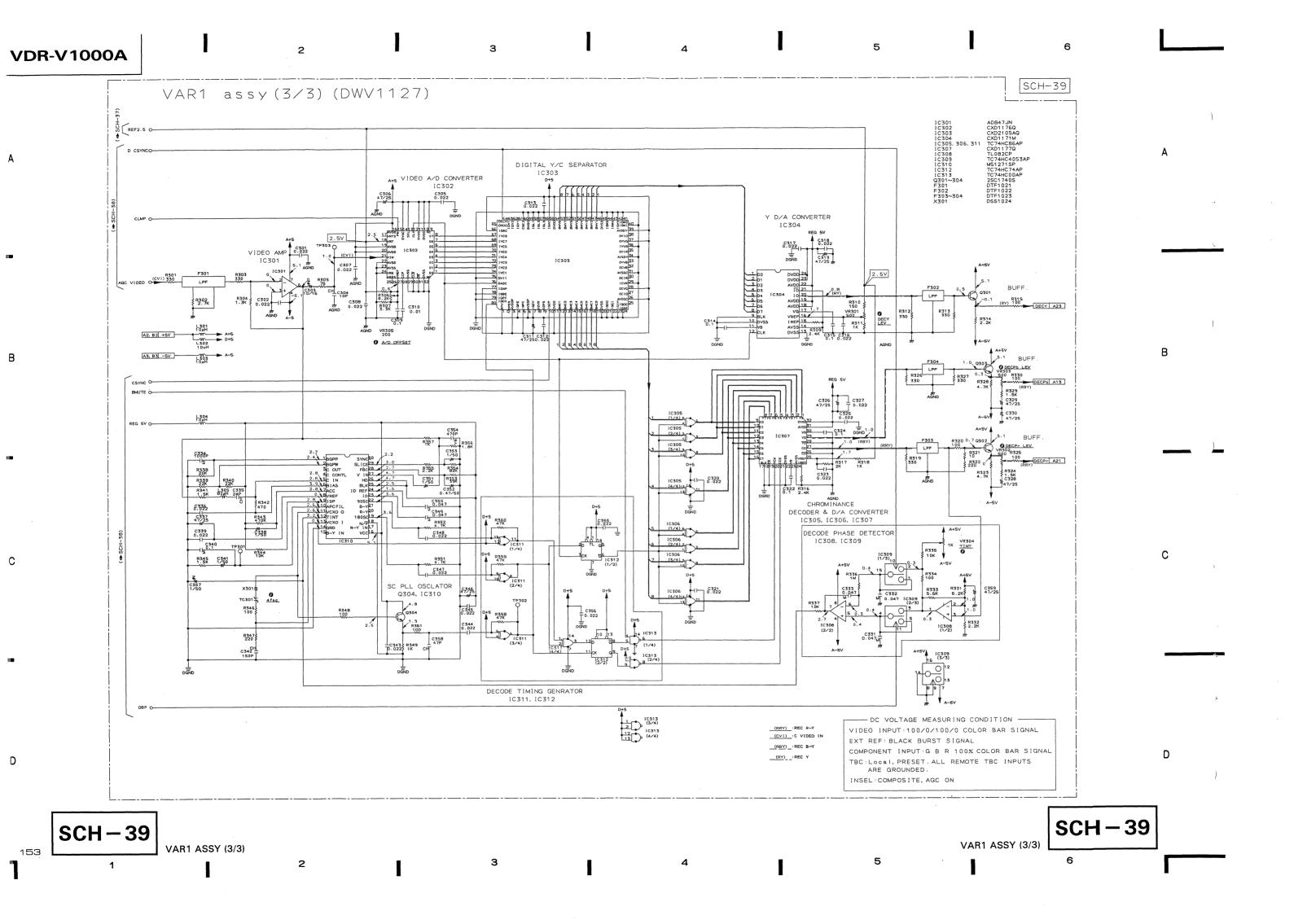
RI R178 R169 O------R74 0 R75 0 R75 0 R71 0 R78 0 R69 0 R69 0 R69 0 R65 0 R6 00000000000 0000000 00000000000 0 0→1→0 C11 R15 0→√~0 VDLK TP11 R139 0~~0 C114 0—1—0 R137 0~~0 C118 0-1IC3 IC21 ICS IC12 C31 20 IC2 11 OHHO 0 0 0 0 0 0 0 0 0 C29 20 0 0 0 0 0 0 0 0 0 16 . 0 0 0 0 0 0 00000000 0000000000 0000000000 0-VV-0 R14 VR1 IC17 0 0 0 0 R49 0-1-0 IC19 TC23 IC22 C30 20 IC22 11 14 0 0 0 0 0 0 В 0 0 R48 0-0-0 0 0 R47 0-0-0 R124 0-V-0 C110 0000000 0000000000 0000000000 0000000 R31 R3Ø 0-----0 0-V-0 R125 0-1-0 R151 0-V-0 IC111 TP7 C23 0-11-0 R115 R118 0~~0 R114 0~~0 R113 0~~0 R117 R116 STB1 CRCOK 에[]Ю 0 0 R89 0-V-0 R172 TP4 8 0 0 0 VFODET TP17 0-11-0 C55 R62 D103 14 0 0 0 0 0 0 0 IC18 X1 IC6 0-K-0 0102 0-K-0 R61 0-0-0 R41 0-0-0 8 0 0 0 86 11 0 0 0 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 C15 IC105 0 0 0 0-11-0 C1Ø5 R17 0-18-0 0-0-0 IC13 0 0 0 0 0 0 0 0 C21 Ľ 22 TP16 C35 WOB R109 F101 5 0 070 R11Ø 0-V-0 | C186 | 0 0 0 0 ·o o •0 0 00000000 00 04 L4 C53 0 0 0 0 R171 0-VV-0 0-11-0 0 060 8000 TP1Ø C21 R100 300 o l 00 0000 TP1 000000 C26 C25 C25 0-KI-O D1Ø8 **○** 2 WINDOW С 0 0.4 ម លា 🗕 R107 R106 C133 DWP1042-A [NTSC] R1Ø1 0000 0 0 DWP1044-A [PAL] GCMK-41X VR2 VRI ICIO8 ICIO9 ICIO6 ICI07 Q103 Q102 IC7 IC3 IC4 IC2 QI IC24 ICI2 Q101 IC5 IC2I ICIII ICII ICI3 10102 10104 IC23 IC6 ICI7 IC22 1019 ICIOI ICIO Q100 IC20 ICI 108 IC18

148

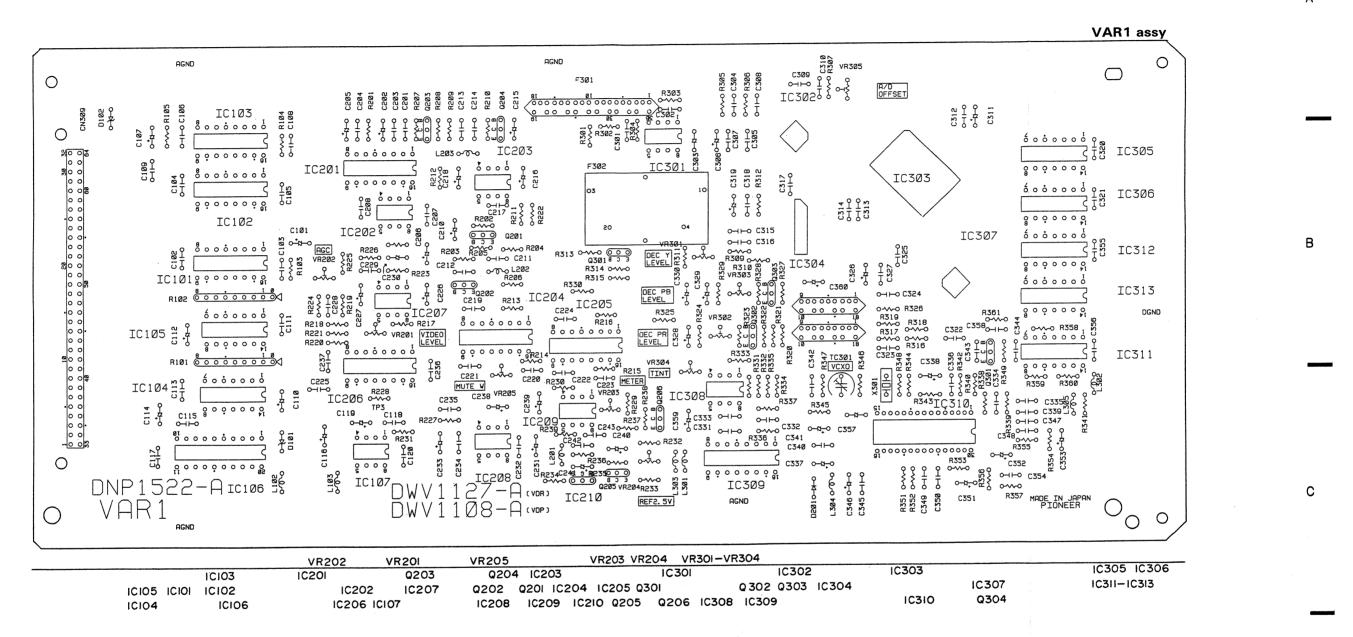
2





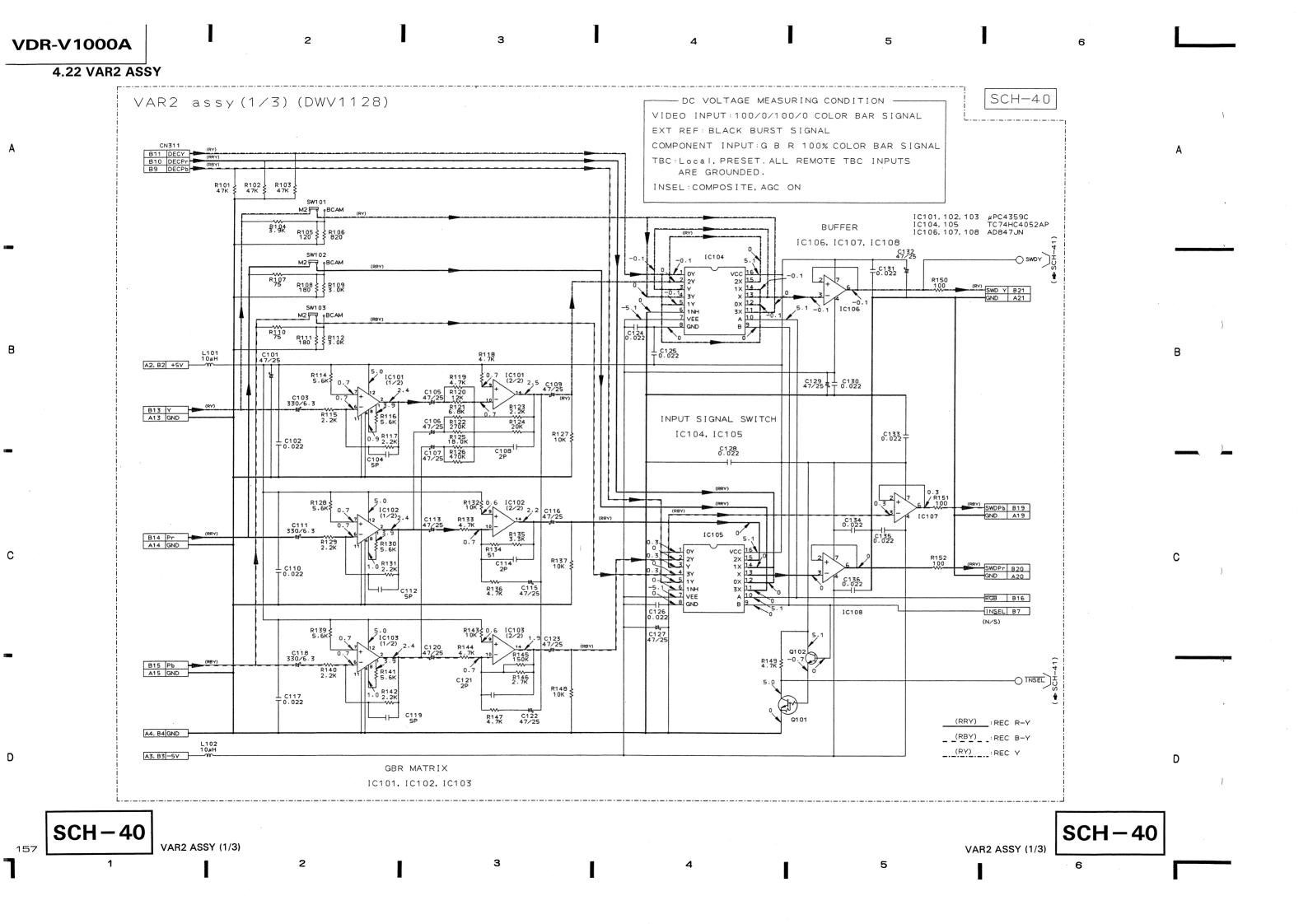


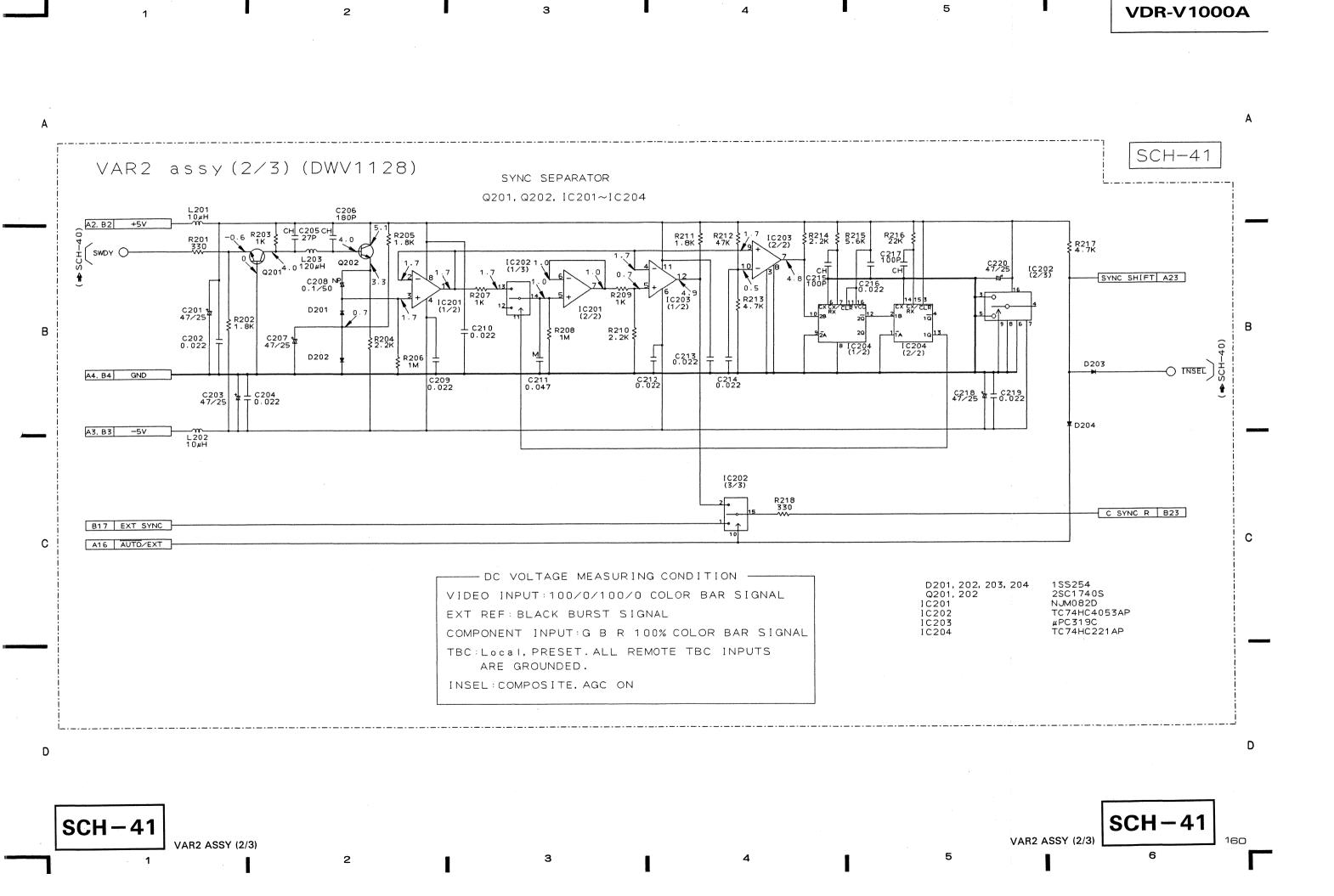
PCB-20

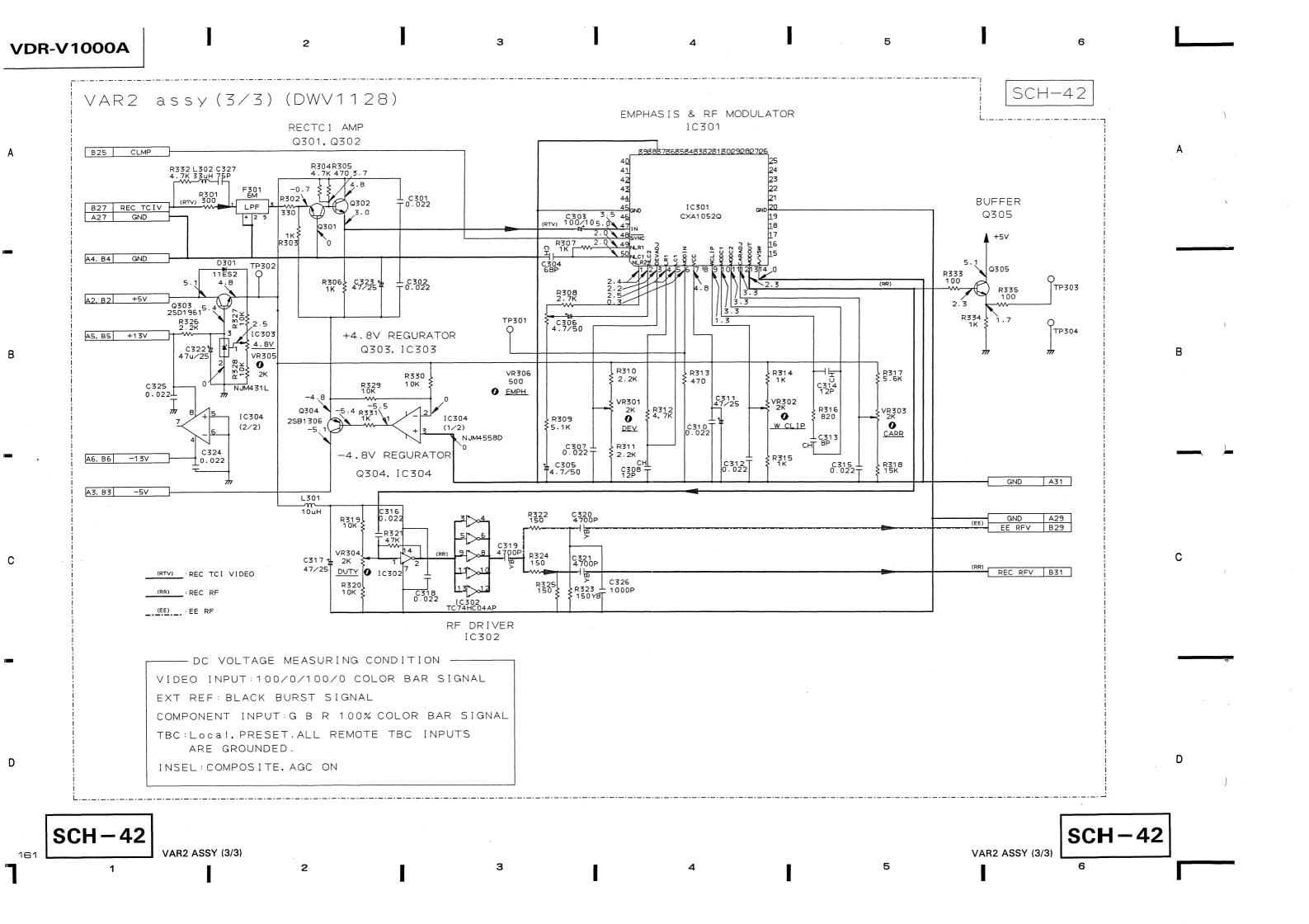


D

.







DNP1340-D VDIF assy DWV1083-A (VDR) 0 ABCDE VDIF DWV1110-A (VDP) 0-13-0 C1 0000000000 J5Ø1 0-B-0 C7 J5Ø3 J5Ø2 R21 0-V-0 C41 0-13-0 C4 C40 0-10-0 o-ta-o C42 0 to-0 o-to-o C43 0-11-0 CS0 R24 0~~~0 0-41-0 C3Ø C21 0-1-0 0-11-0 C5 C31 0-1-0 C3 0→ 1→0 R3 0-11-0 C18 o-11-o C26 0-14-0 D21 0-VV-0 R40 C27 0-1-0 0-KI-0 D27 0-11-0 R17 R19 0-VV-0 مسه مسه O-KI-O D33 R27 0-44-0 0-44-0 R26 0+0-0-0 D13 R4 04 R2Ø mO. no. 0 R39 0 C IC1 ° IC6 ° ° IC9 IC10 ° 0 0-KI-0 D15 0-0-N-0 D16 Ͻ 0œo! 0~R38 60 0~~0 D14 0-K-0 05 0-14-0 0-01-0 D4 D58 0-10-0 0-VV-0 R25 DSS 0-KI-0 034 o-k-o C6 0-11-0 R7 0-11-0 C22 0-11-0 C22 C23 0-11-0 0-1-0 C5 C39 0-11-0 o⊣⊩o C38 C33 0-1-0 O-11-0 C32 O-I I-O C15 0-KI-0 D23 R8 0-11-0 R 0-KI-0 D35 o-v-o R5 0-44-0 R13 0-10-0 0-10-0 R42 R22 100 0-1 R15 0-44-0 R3Ø 0-11-0 0-11-0 R29 0+0-N-0 D5 **IDO** 040-D-0 D17 04 IC4 ° ICS % ° IC13 IC7 ° o o R14 0 0-VV-0 RB 0-0-14-0 D19 mΟ ωO D24 o-10-0 C24 0-11-0 D6 0-K-0 D3Ø 0-KI-O 018 o-KI-O 0-44-0 R35 D36 0-KI-O 0-70-0 R16 C25 0-11-0 C35 0-11-0 o-11-0 C34 C9 0-1-0 R11 o⊣ +o €8 0-11-0 C37 C15 0-p-0 0-KI-0 D25 R23 0-V-0 0-V-0 R45 0-KI-0 D31 0-44-0 R9 ი∕**ბ**∿ი L5 R12 0-44-0 0-44 0-0-0-0 D9 0-11-0 C36 ທດ ıρO C13 0-0-0 IC3 ° IC8 ° o-^--o R34 CN5Ø1 0 0-44-0 R1Ø 0-0-14-0 D11 10-00000 D10 0-K-0 0-N-0 D12 D26 0-KI-O 0-14-0 0-^-- R31 o-a-o 0-12-0 CN226 CN224 **CN24** CN555 0000000000 CIA 00000 00000 (RED) SE rs o<u>w</u>o PIONEER DNX1545-B

Α

В

D

2

IC1-IC3 IC5 IC4 IC6~IC8 IC10-IC12 IC9 IC13

9

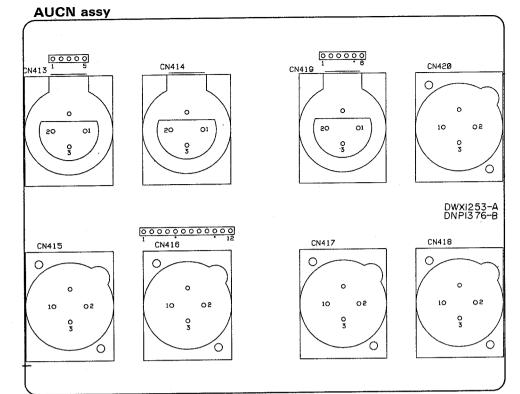
VDCN assy VDCN 0000000000 000000 PIONEER DWV1109-A (VDP) DNX1544-B J5Ø3 J5Ø2 MADE IN JAPAN J5Ø1 R1Ø3 R104 20 05 20 OS 10 04 R1Ø5 3 O

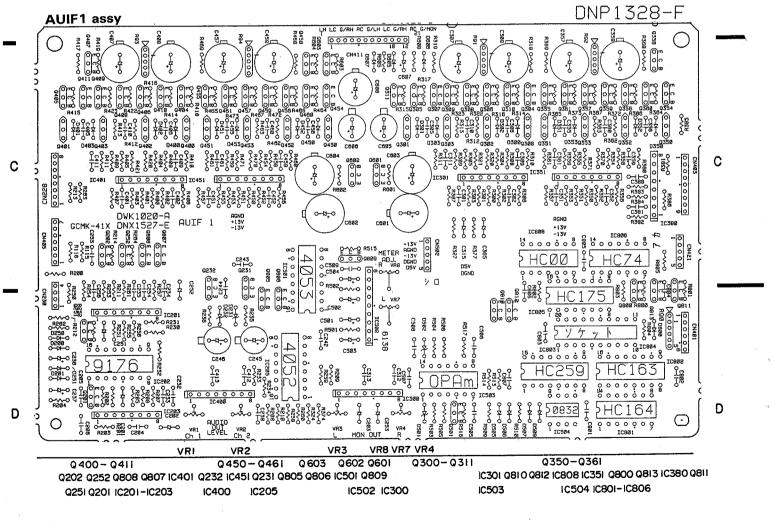
MADE IN JAPAN

В

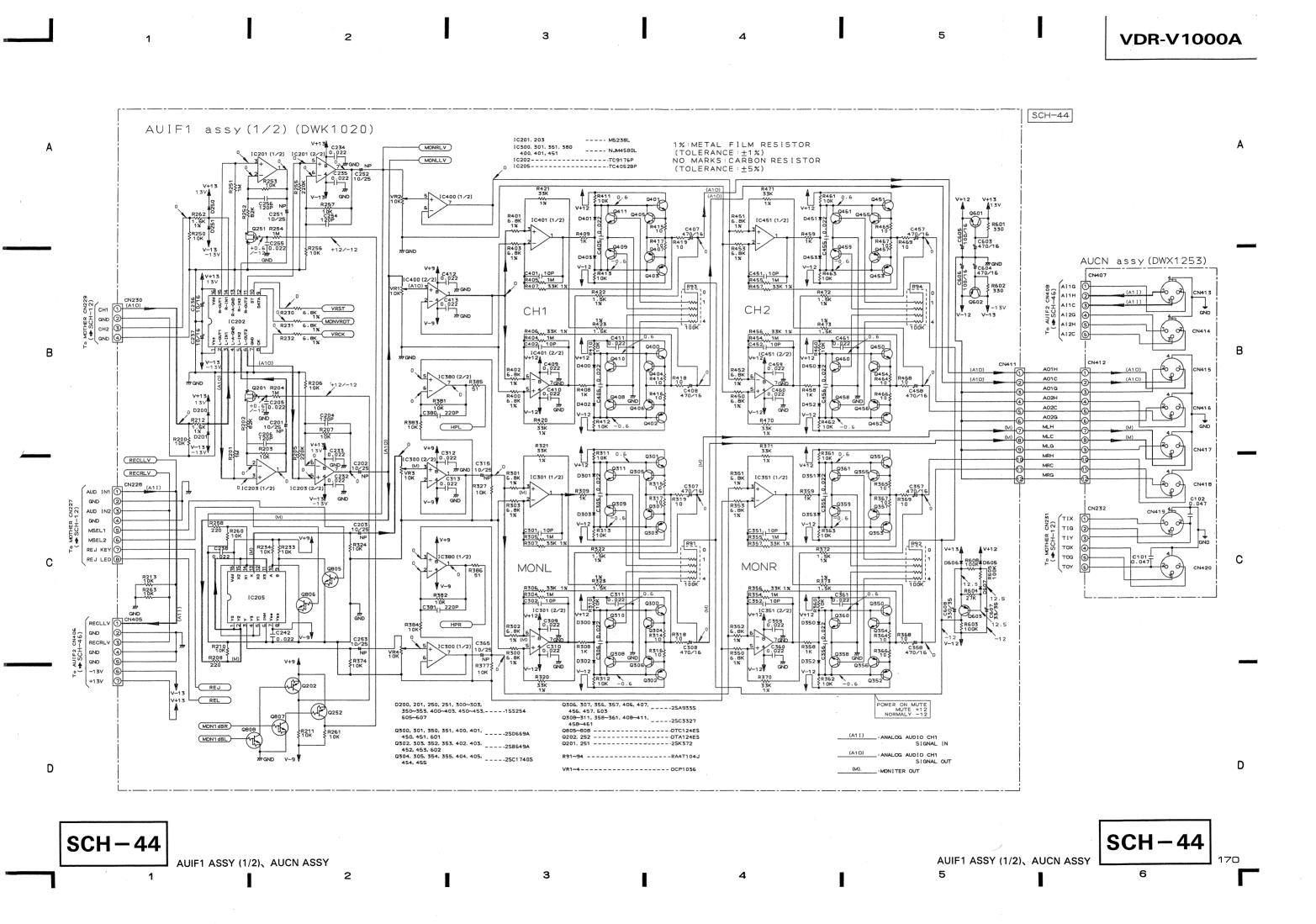
В

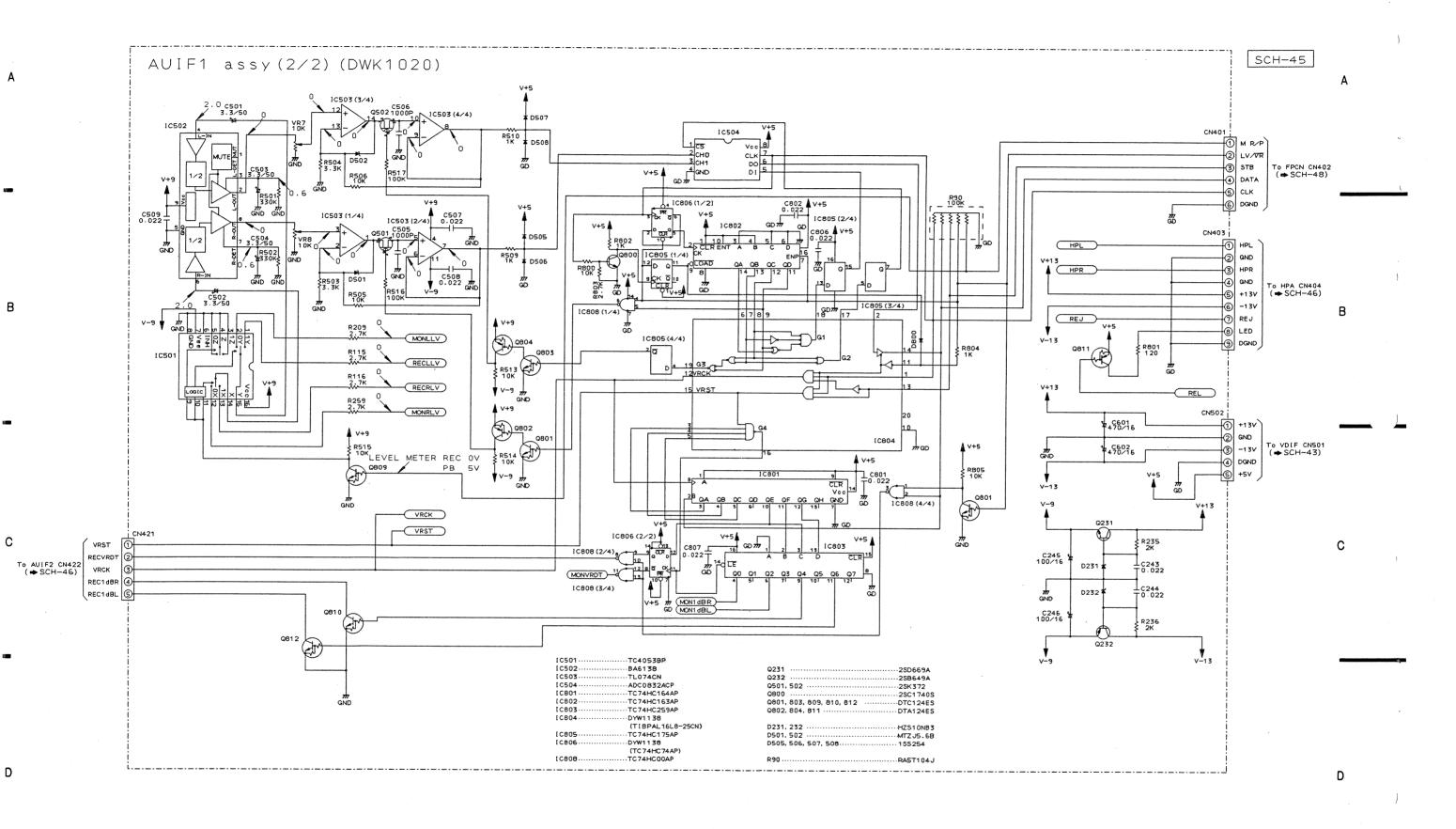
4.24 AUIF1 ASSY AND AUCN ASSY





168





SCH-45
AUIF1 ASSY (2/2)

1 2 3 4 5 6 SCH-45

PCB-21

Α

VAR2 assy GND CARR 0.000 038 0 0 VR304 🖔 @**₹** ▲ GCMK-41X 1C302 \$ 1 E DUTY \$ 8 ACTID R328 A334 O ~ ~ TP3Ø3 TP304 R301 0-4-0 L302 C327 R332 0-4-0 0-10-0 0-11-0 A : Betacam (60Hz) В EMPH VR3Ø6 B : SMPTE/EBU F3Ø1 gg IC107 0 9 VR3Ø1 20 DEV C3Ø3 Q1Ø1 o⊣ ⊢o C133 C215 R215 IC102 } 1 5 5 5 o⊣ ⊢o C136 6000000 ** O O O I C 1 0 8 8 9 8000000 T IC204 IC203 } \$ 1 IC105 80000004 0000 C217 R216 II R118 R118 R118 C108 0-1-0 C134 0-0-0 C129 80000000 ICSØS 3 0-1-0 C13Ø IC104 ζ 000000000 TP302 8009 IC106 C322 R327 3 C203 0-p-0 οнно 0-4-0 0-0-0 C21Ø R326 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0000 0-4-0 0-1-0 C131 C109 С CN311 1C3Ø3 0 0 0 14.8V VR3Ø5 R120 C R119 C R124 C C108 C ABCDEFG o—¤<u>+</u>o C132 PIONEER MADE IN JAPAN 000 3 GND GND VR304 VR302 VR303 VR30I VR305 10103 IC302 Q305 IC30I Q301 Q302 Q304 IC304 ICI07 ICI08 IC203 IC105 Q101 Q102 IC204 10102 IC202 Q303 IC303 IC106 IC20I Q20I Q202 10101 IC104

164

.

3

2

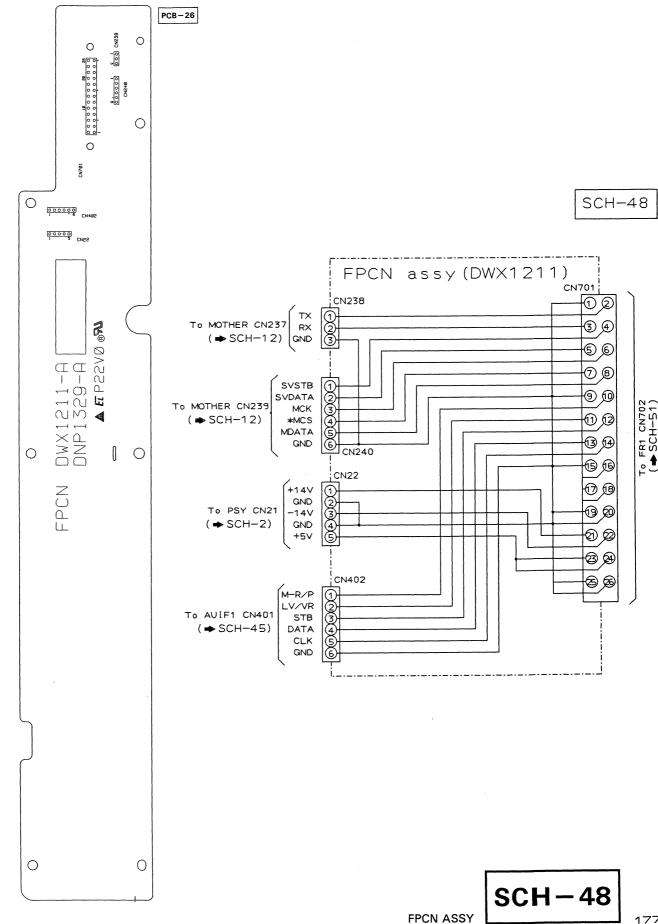
4



В

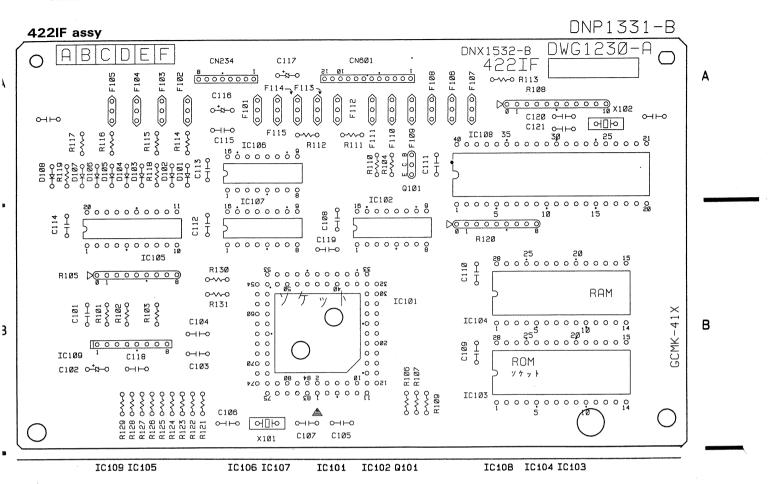
Ç

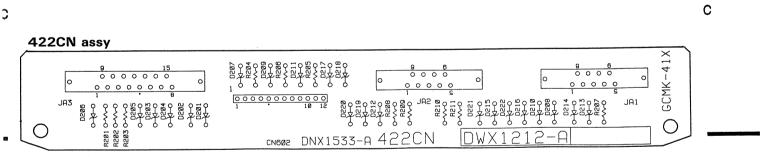
D



2

4.28 422IF ASSY AND 422CN ASSY



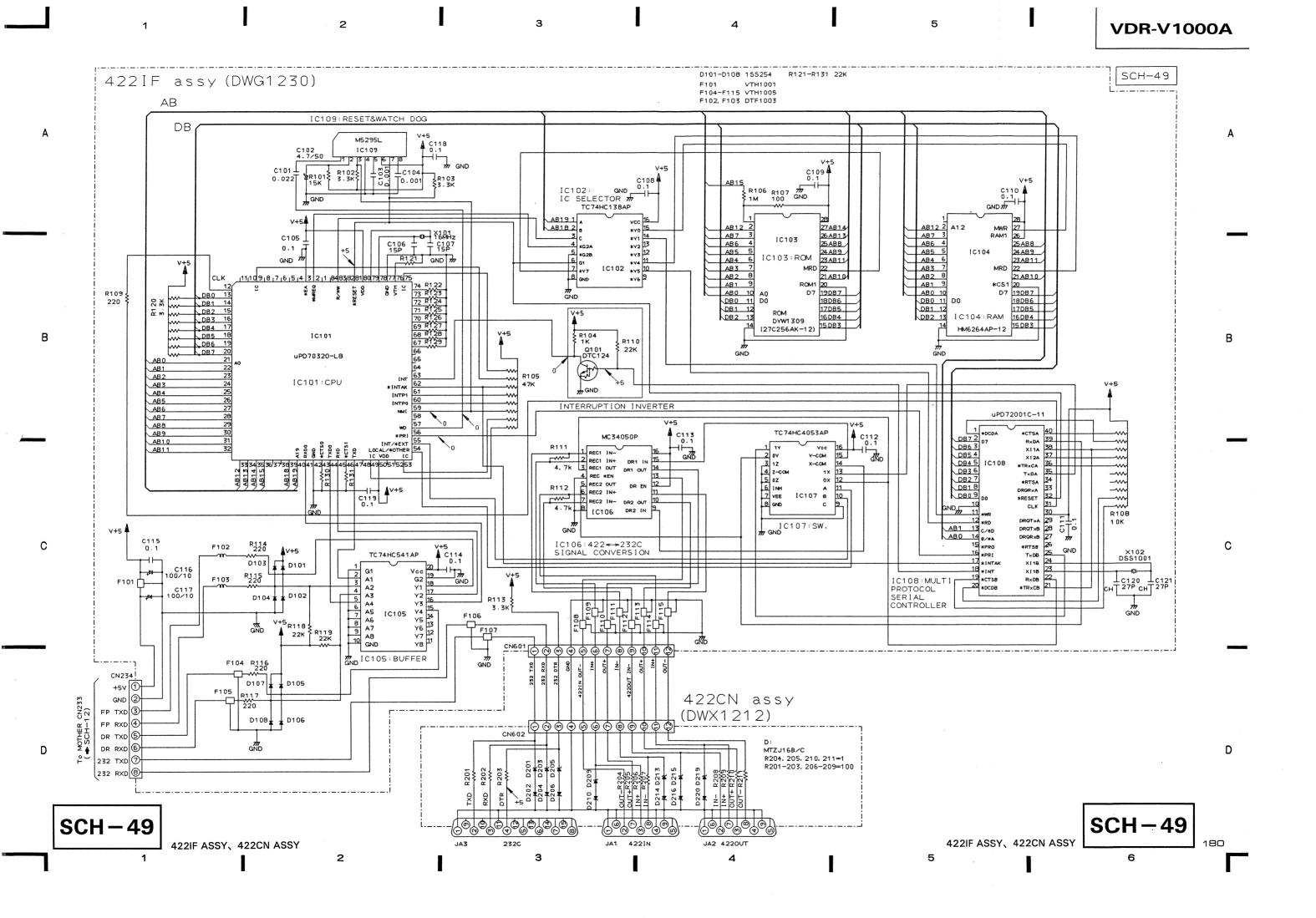


178

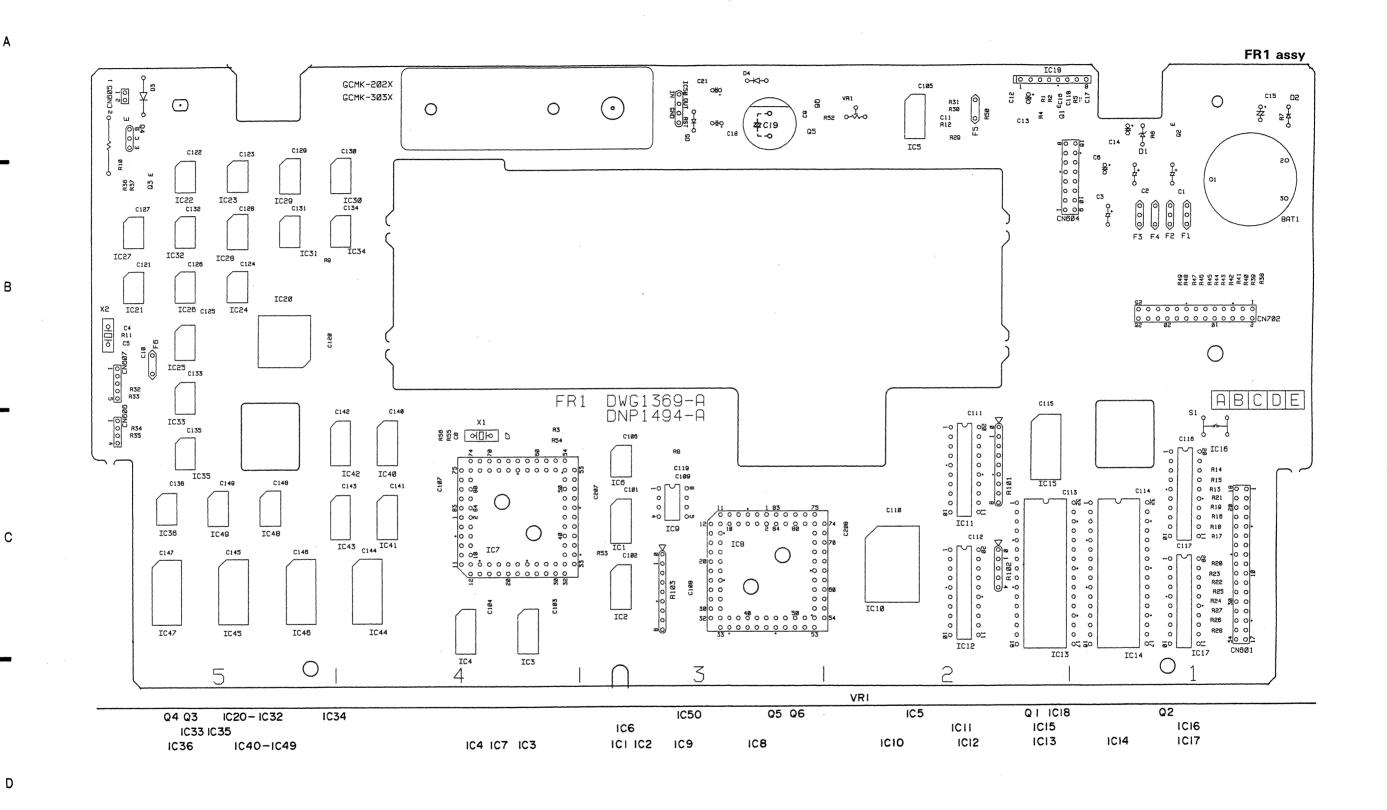
2

3

D



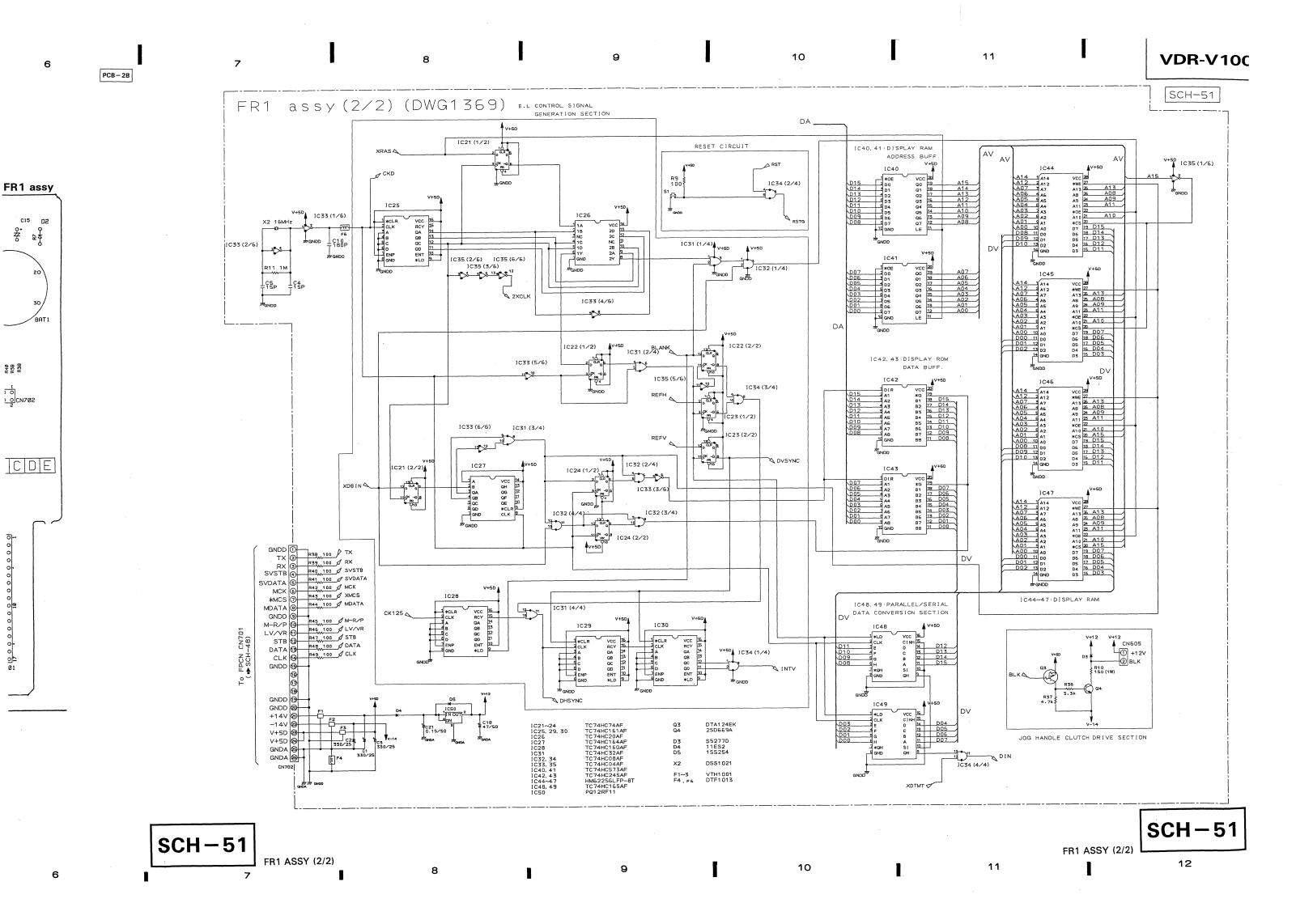
PCB-28



•

-

.



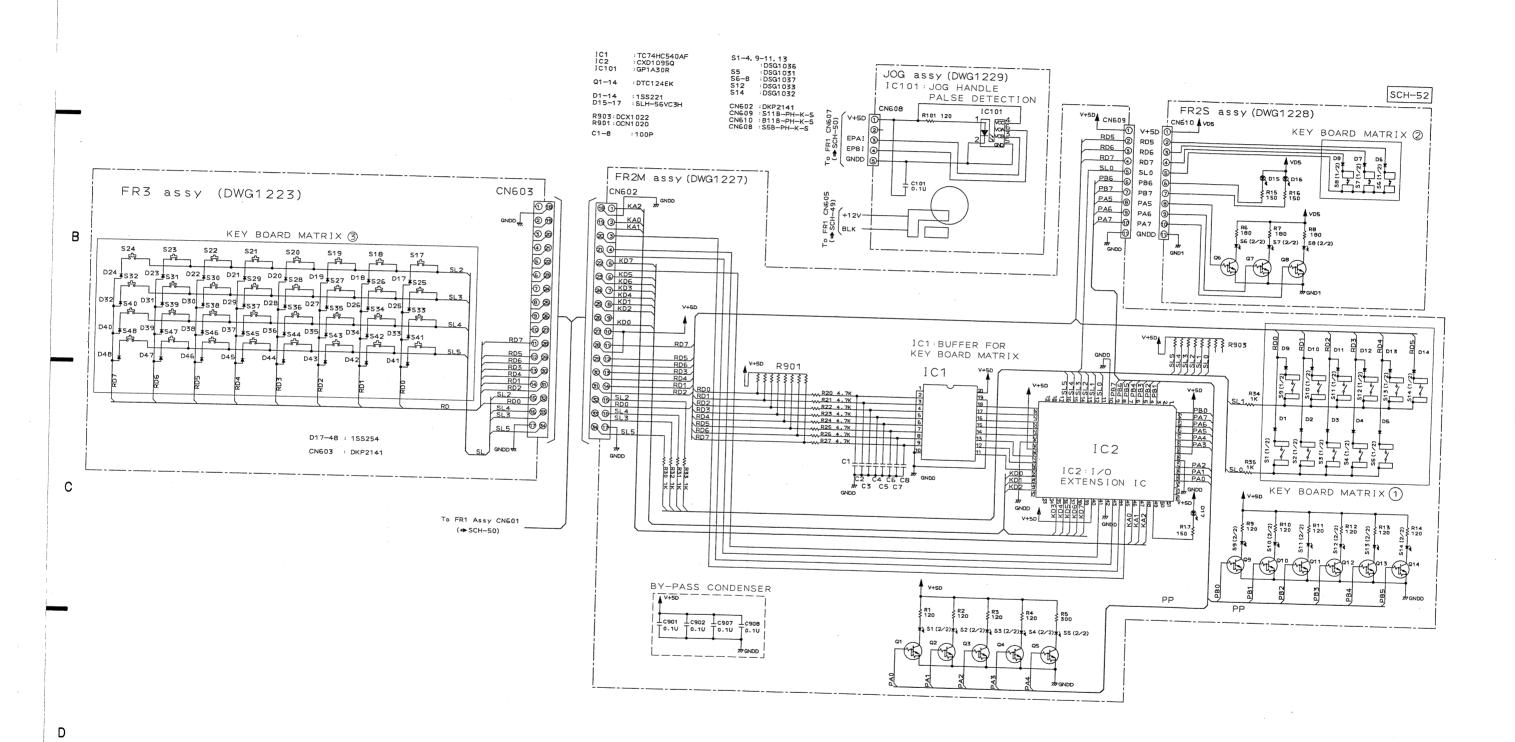
3

4

5

6

4.30 FR3 ASSY、FR2M ASSY、FR2S ASSY AND JOG ASSY



SCH-52

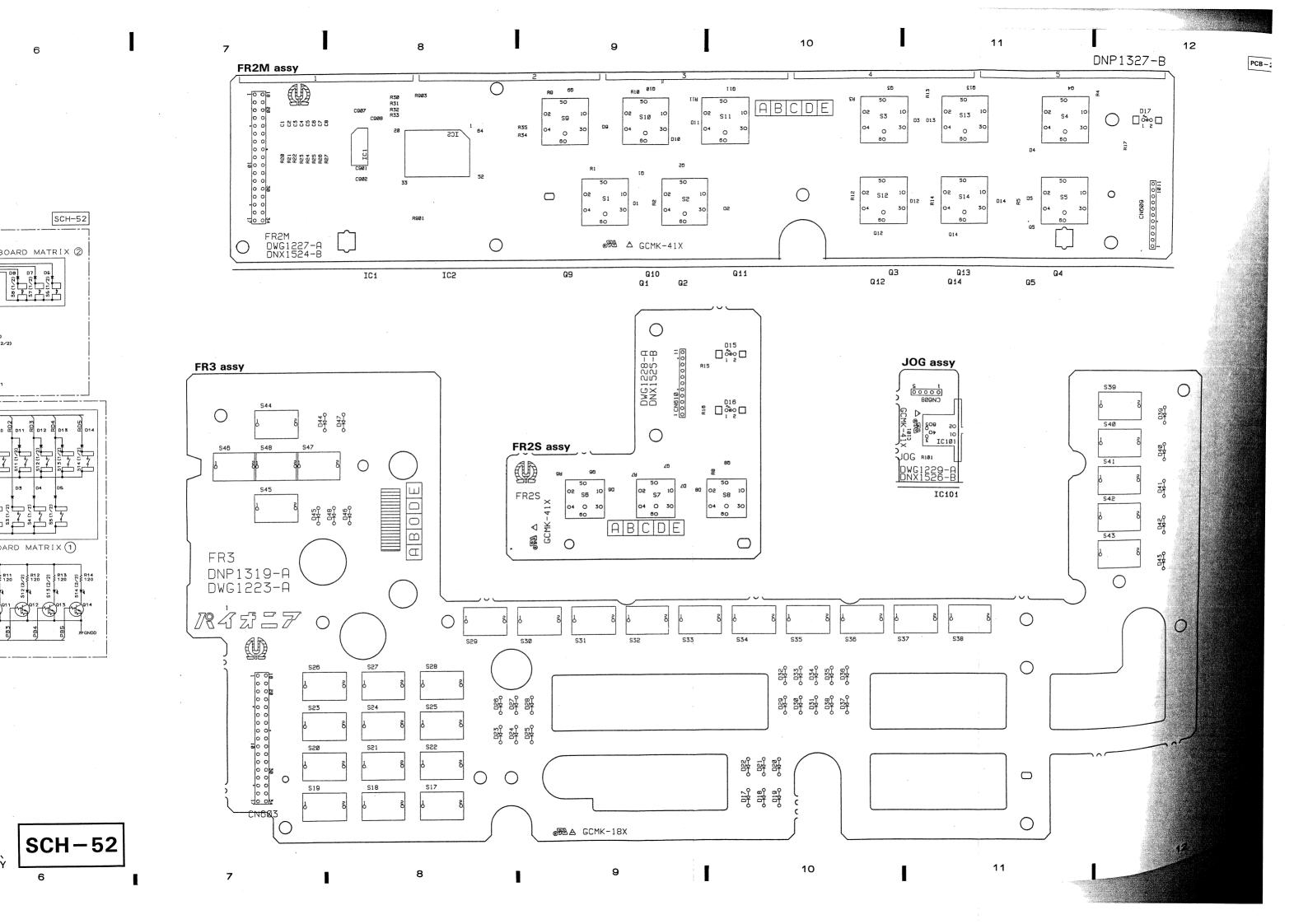
FR3 ASSY、FR2M ASSY、FR2S ASSY、 JOG ASSY

3

FR3 ASSY、FR2M ASSY、FR2S ASSY、
JOG ASSY

SCH-52

6



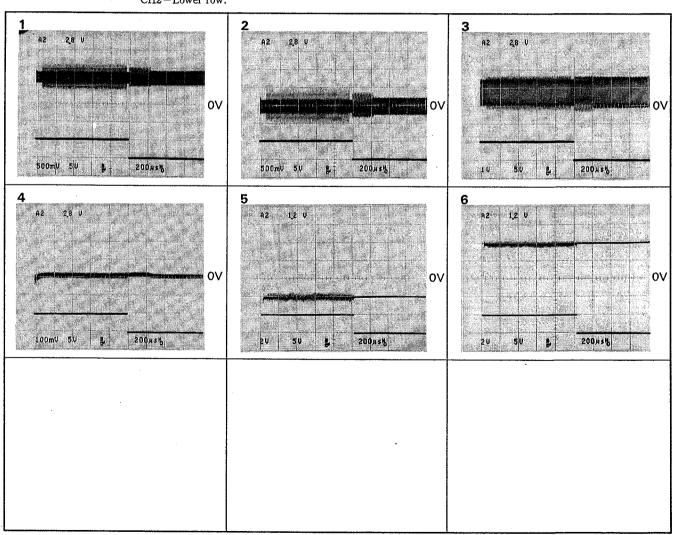
■ Wave Forms

ADEM Assy

INPUT: COLOR BAR, FN0=100, COMPOSITE INPUT (Y, R-Y, B-Y) PB MODE

No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	TP1	PBA	0.5 [V]	200 [μs]		CH1
2	TP5	AGC	0.5 [V]	200 [μs]		CH1
3	TP7	RFN	1[V]	200 [μs]		CH1
4	TP10	ATC	0.1 [V]	200 [μs]		CH1
5	TP35	PLL	2 [V]	200 [μs]		CH1
6	TP14	XER	2 [V]	200 [μs]		CH1
1~6	TP16	AREA	5[V]	200 [µs]		CH2

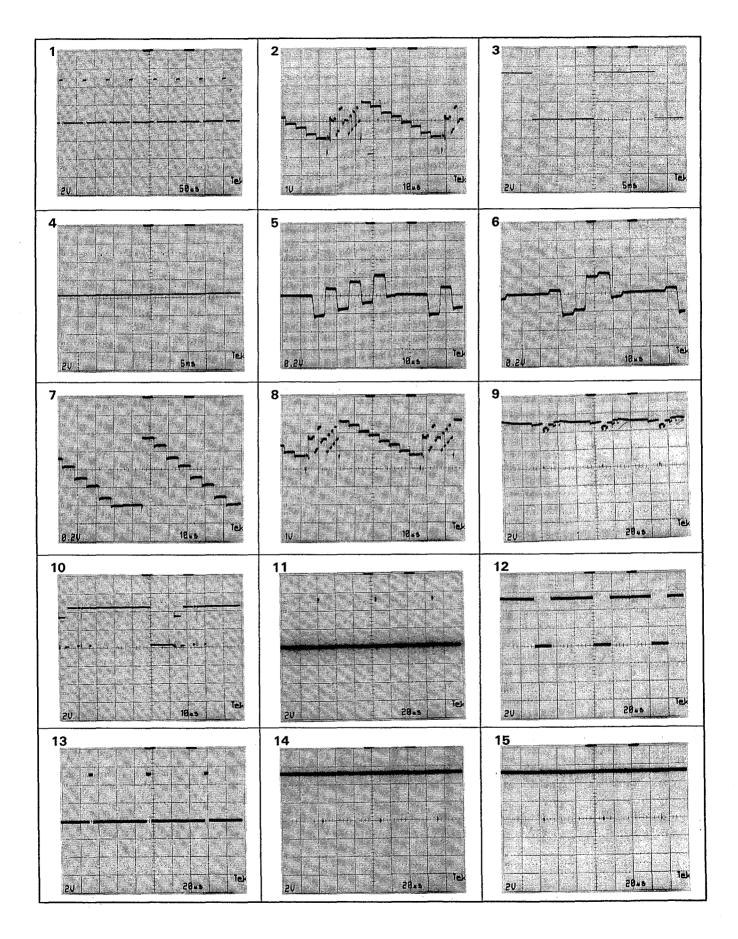
• Waveform photographs : CH1 – Upper row. CH2 – Lower row.



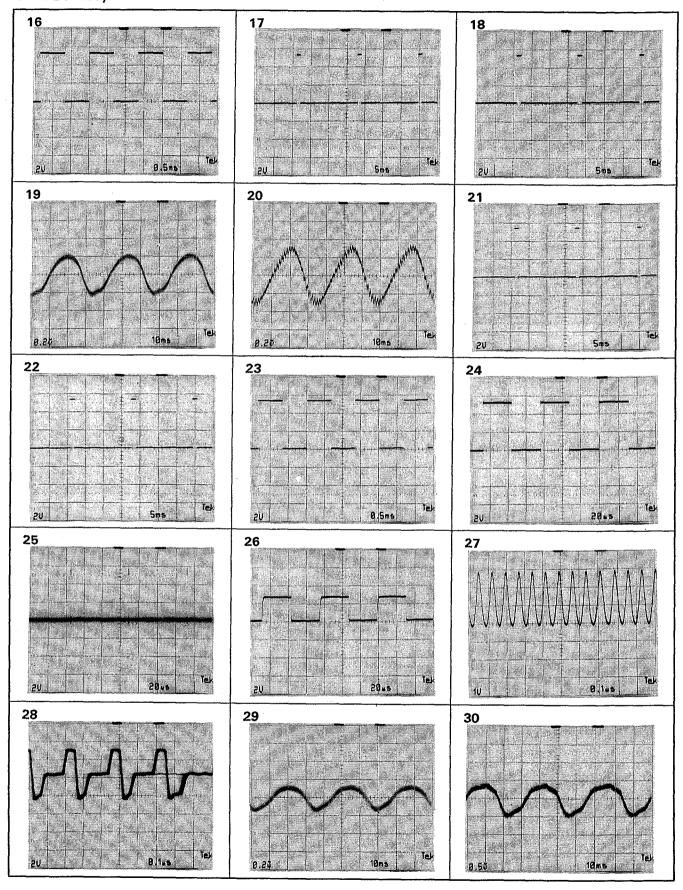
VDEC Assy

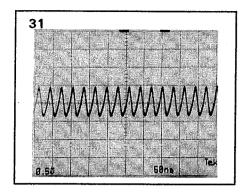
INPUT: COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) EE MODE

No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	IC44-Pin 95	SGHD	2.0 [V]	50 [μ́s]		(CN1-A5)
2	Q8 Drain	PBTCIV	1.0 [V]	10 [μs]		(CN1-B5)
3	IC44-Pin 99	SGF	2.0 [V]	5 [ms]		(CN1-B6)
4	IC44-Pin 96	SGVD	2.0 [V]	5 [ms]		(CN1-B5)
5	TP14	PBB-Y	0.2 [V]	10 [μs]	-0.6[V]	
6	TP15	PBR-Y	0.2 [V]	10 [μs]	-0.6 [V]	
7	TP16	PB-Y	0.2 [V]	10 [μs]	-0.2 [V]	
8	TP1		1.0 [V]	10 [μs]		
9	IC12-Pin 6	TSYNI	2.0 [V]	20 [μs]		
10	IC44 – Pin 40	TREF	2.0 [V]	10 [μs]		
11	IC44-Pin 43	CLP	2.0 [V]	20 [μs]		
12	IC38-Pin 8	NYC	2.0 [V]	20 [μs]		
13	IC38-Pin 7	AWVN	2.0 [V]	20 [μs]		
14	IC38-Pin 6	STPN	2.0 [V]	20 [μs]		
15	IC38-Pin 5	STGN	2.0 [V]	20 [μs]	-	
16	IC44-Pin 112	WASB	2.0 [V]	0.5 [ms]		(CN2-A17)
17	IC44-Pin 110	WVDA	2.0 [V]	5 [ms]		(CN2-A19)
18	IC44-Pin 111	РСМА	2.0 [V]	5 [ms]		(CN2-A18)
19	CN2-B4	PERRA	0.2 [V]	10 [ms]	0.3 [V]	
20	CN2-B5	PERRB	0.2 [V]	10 [ms]	0.2 [V]	
21	IC44-Pin 114	РСМВ	2.0 [V]	5 [ms]	<u></u>	(CN2-B17)
22	IC44-Pin 113	WVDB	2.0 [V]	5 [ms]		(CN2-B18)
23	IC44-Pin 109	WASA	2.0 [V]	0.5 [ms]		(CN2-B19)
24	IC44-Pin 105	STZ	2.0 [V]	20 [μs]		
25	IC44-Pin 106	SSP .	2.0 [V]	20 [μs]		
26	TP300		2.0 [V]	20 [μs]		
27	X2-Pin 8		1.0 [V]	0.1 [//s]		
28	IC44-Pin 37	PPE	2.0 [V]	0.1 [μs]		
29	TP302		0.2 [V]	10 [ms]	2.3 [V]	
30	TP11		0.5 [V]	10 [ms]	3.2 [V]	
31	X3-Pin 8		0.5 [V]	50 [ns]	1.8 [V]	



VDEC Assy

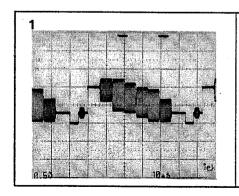


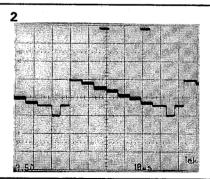


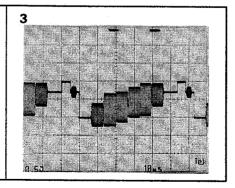
● VAR1 Assy

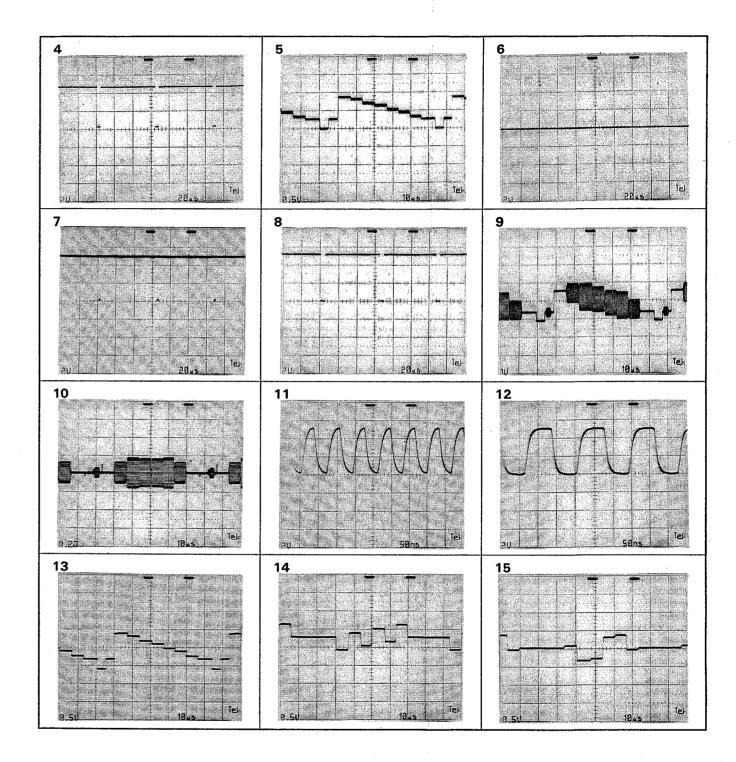
INPUT : COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) EE MODE

I			·			, ,
No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	IC202-Pin 3	CV IN	0.5 [V]	10 [μs]	-0.2 [V]	(CN309-A17)
2	Q204 Emitter		0.5 [V]	10 [μs]	-1.5 [V]	
3	IC202-Pin 6	CLMP	0.5 [V]	10 [μs]	-0.2 [V]	
4	IC203-Pin 5		2.0 [V]	20 [μs]		
5	IC206-Pin 15		0.5 [V]	10 [μs]		
6	IC206-Pin 10		2.0 [V]	20 [µs]		
7	IC204-Pin 4	BMUTE	2.0 [V]	20 [μs]		
8	IC309-Pin 10	D CSYNC	2.0 [V]	20 [μs]		
9	IC301-Pin 6		1.0 [V]	10 [μs]		
10	IC310-Pin 5		0.2 [V]	10 [μs]	3.0 [V]	
11	TP302		2.0 [V]	50 [ns]		
12	IC313-Pins 6, 8		2.0 [V]	50 [ns]		
13	Q301 Emitter	DECY	0.5 [V]	10 [ns]		(CN309-A23)
. 14	Q303 Emitter	DECPb	0.5 [V]	10 [ns]		(CN309-A19)
15	Q302 Emitter	DECPr	0.5 [V]	10 [ns]	 ·	(CN309-A21)





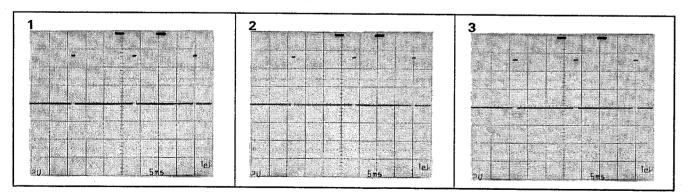


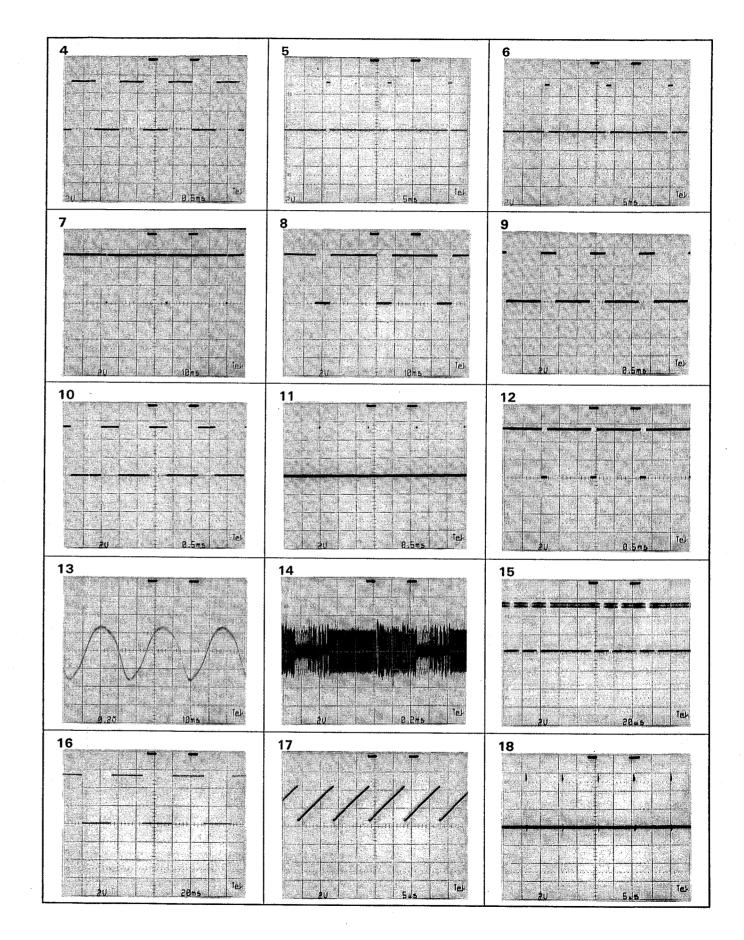


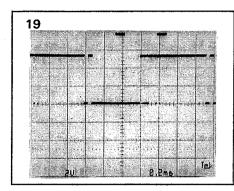
ADDC Assy

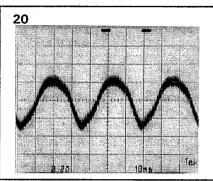
INPUT : COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) EE MODE

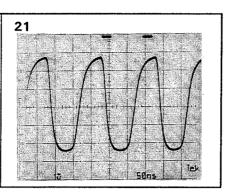
No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	IC18-Pin 81	wv	2.0 [V]	5 [ms]		(CN1-A9)
2	IC18—Pin 44	PCMA2	2.0 [V]	5 [ms]		(CN1-A16)
3	IC18-Pin 70	WVDA2	2.0 [V]	5 [ms]		(CN1-A17)
4	IC19-Pin 9	WSB	2.0 [V]	0.5 [ms]		(CN1-A18)
5	IC19-Pin 14	PCMA	2.0 [V]	5 [ms]		(CN1-A19)
6	IC19-Pin 16	WVDA	2.0 [V]	5 [ms]		(CN1-A20)
7	TP10		2.0 [V]	10 [ms]		
8	TP7	·	2.0 [V]	10 [ms]		
9	TP17		2.0 [V]	0.5 [ms]		
10	TP16		2.0 [V]	0.5 [ms]		
11	TP8		2.0 [V]	0.5 [ms]		
12	TP9		2.0 [V]	0.5 [ms]		
13	TP5		0.2 [V]	10 [ms]	3.5 [V]	
14	TP12		2.0 [V]	0.2 [ms]		
15	IC10-Pin 7		2.0 [V]	20 [μs]	· <u></u>	
16	TP4		2.0 [V]	20 [ms]	·	
17	TP2		2.0 [V]	5 [μs]		
18	TP13		2.0 [V]	5 [μs]		
19	TP18		2.0 [V]	0.2 [ms]		
20	TP3		0.2 [V]	10 [ms]	3.5 [V]	
21	X2-Pin 5	·	1.0 [V]	50 [ns]		







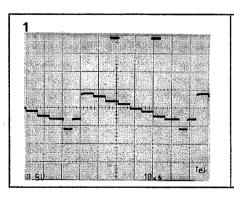


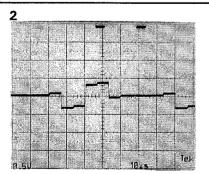


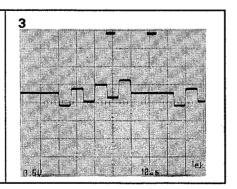
VAR2 Assy

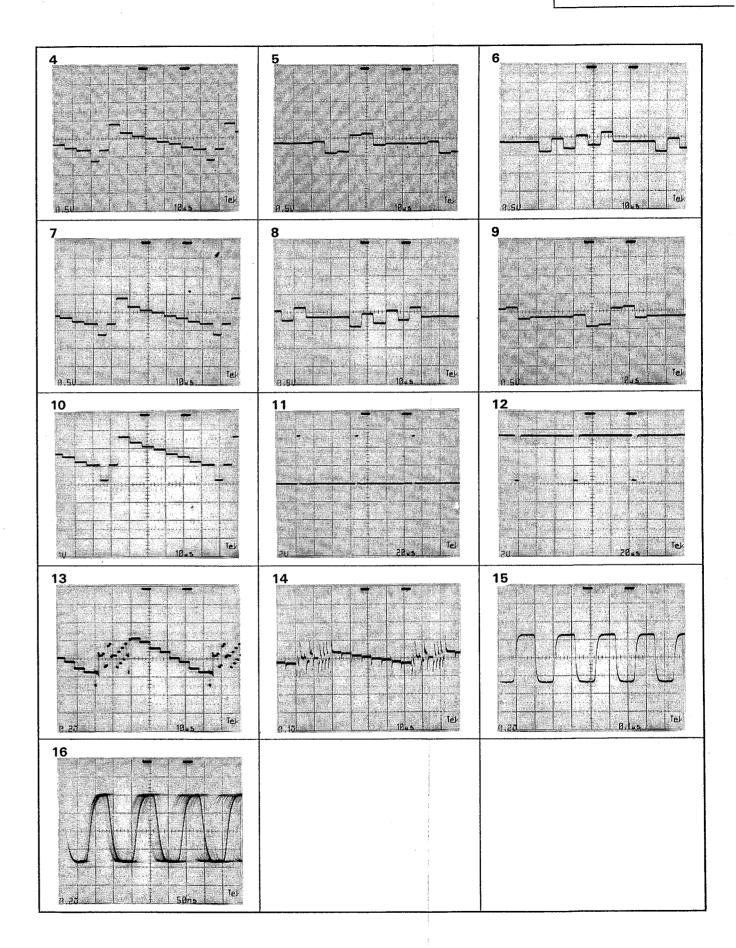
INPUT: COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) EE MODE

No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	IC104-Pin 1	DECY	0.5 [V]	10 [μs]		(CN311-B11)
2	IC105-Pin 14	DECPr	0.5 [V]	10 [μs]		(CN311-B10)
3	IC105-Pin 1	DECPb	0.5 [V]	10 [μs]		(CN311-B9)
4	IC104-Pin 4	Y	0.5 [V]	10 [μs]		SW101 : B (M2)
5	IC105-Pin 11	Pr	0.5 [V]	10 [μs]		SW102 : B (M2)
6	IC105-Pin 4	Pb	0.5 [V]	10 [μs]	<u> </u>	SW103 : B (M2)
7	IC106-Pin 6	SWDY	0.5 [V]	10 [μs]		(CN311-B21)
8	IC107-Pin 6	SWDPb	0.5 [V]	10 [μs]		(CN311-B19)
9	IC108-Pin 6	SWDPr	0.5 [V]	10 [μs]		(CN311-B20)
10	IC201-Pin 3		1.0 [V]	10 [μs]		
11	IC202 - Pin 11		2.0 [V]	20 [μs]		
12	IC202-Pin 15	C SYNC R	2.0 [V]	20 [μs]		(CN311-B23)
13	IC301-Pin 47		0.2 [V]	10 [μs]		
14	TP301		0.1 [V]	10 [μs]		
15	TP303		0.2 [V]	0.1 [μs]	2.0 [V]	
16	CN311-B29, B31	EE RFV REC RFV	0.2 [V]	50 [ns]		





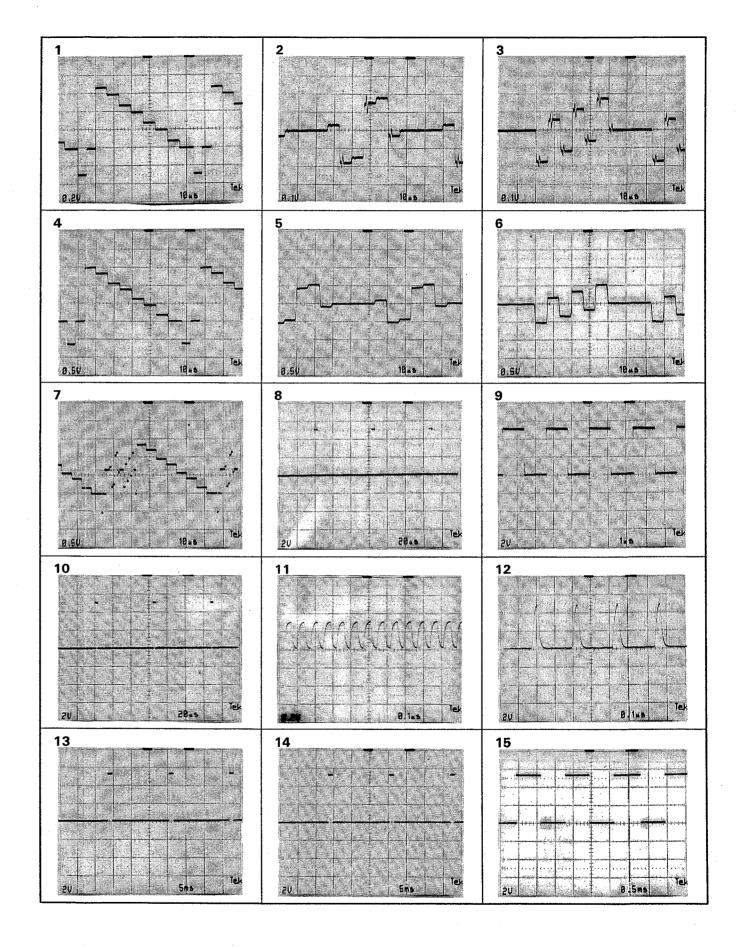


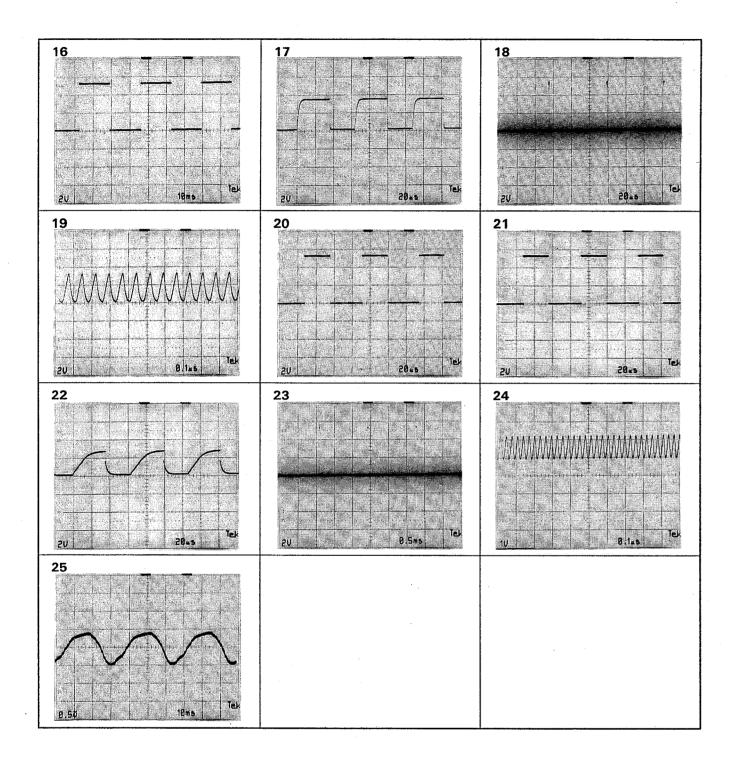


VENC Assy

INPUT : COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) EE MODE

No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	Q4 Emitter	SWDY	0.2 [V]	10 [μs]	-0.8 [V]	
2	Q8 Emitter	SWD R-Y	0.1 [V]	10 [μS]	-0.8 [V]	
3	Q12 Emitter	SWD B-Y	0.1 [V]	10 [μS]	-0.8 [V]	
4	TP4 (TP209)		0.5 [V]	10 [μS]	0.7 [V]	
5	TP6 (TP211)		0.5 [V]	10 [μS]	0.9 [V]	
6	TP8 (TP213)		0.5 [V]	10 [μS]	0.9 [V]	
7	TP10		0.5 [V]	10 [μS]	0.6 [V]	
8	IC28-Pin 14	SYD	2.0 [V]	20 [μs]		
9	IC9, 10, 11-Pin 2	YOS, ROS, BOS	2.0 [V]	1 [μs]		
10	IC28-Pin 62	CLMP	2.0 [V]	20 [μs]		
11	IC28-Pin 59	ACY	0.2 [V]	0.1 [μs]		
12	IC28-Pin 58	ACC	2.0 [V]	0.1 [μs]		
13	IC28-Pin 112	WVDA	2.0 [V]	5 [ms]		(CN2-A19)
14	IC28-Pin 98	RECVD	2.0 [V]	5 [ms]		(CN2-A3)
15	IC28-Pin 113	WASA	2.0 [V]	0.5 [ms]		(CN2-B19)
16	IC28-Pin 99	RECFF	2.0 [V]	10 [ms]		(CN2-B3)
17	TP201		2.0 [V]	20 [μs]		
18	TP202		2.0 [V]	20 [μs]		
19	X1-Pin 8		2.0 [V]	0.1 [μs]		
20	IC35 - Pin 4		2.0 [V]	20 [μs]		
21	IC28 – Pin 8	TTZ	2.0 [V]	20 [μs]		
22	TP204		2.0 [V]	20 [μs]		
23	TP205		2.0 [V]	0.5 [ms]		·
24	X2-Pin 8		1.0 [V]	0.1 [μs]		
25	TP11		0.5 [V]	10 [ms]	4.0 [V]	

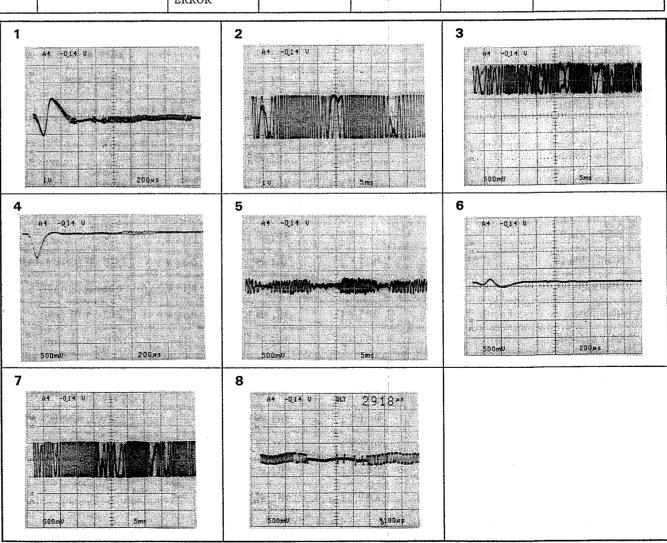




SVAW Assy

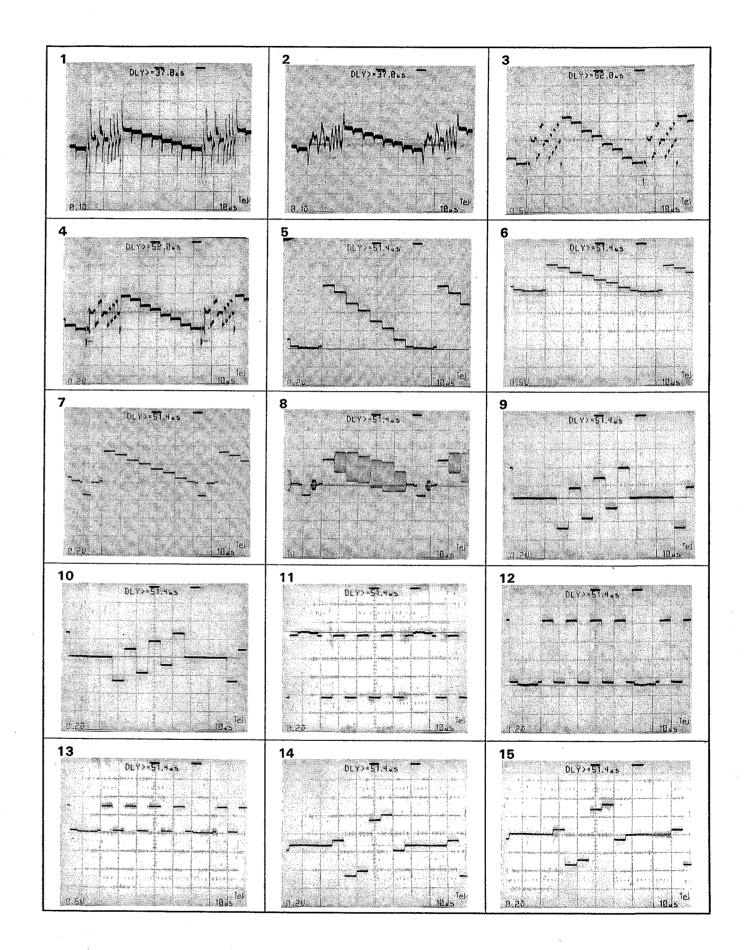
INPUT: COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) EE MODE

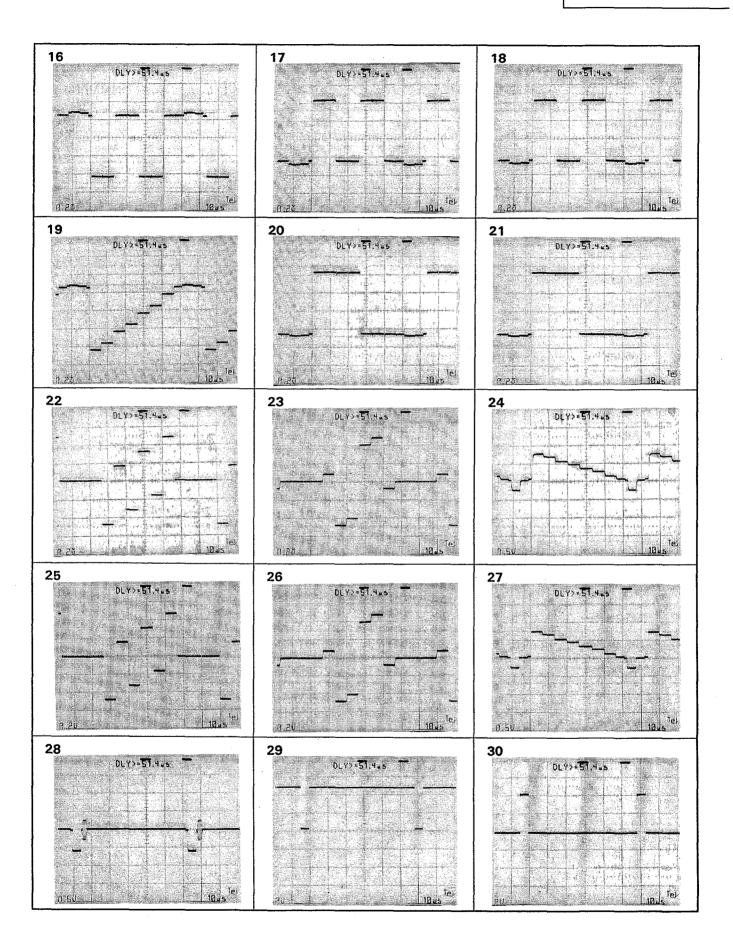
No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	TRACKING O/C	REMARKS
1	TP10	TRACKING ERROR	1.0 [V]	200 [μs]	CLOSE	PAUSE JUMP WAVEFORM
2	TP10	TRACKING ERROR	1.0 [V]	5 [ms]	OPEN	
3	TP5	LR	500 [mV]	5 [ms]	OPEN	
4	TP5	LR	500 [mV]	200 [μs]	CLOSE	
5	TP4	FOCUS ERROR	500 [mV]	5 [ms]	OPEN	·
6	TP4	FOCUS ERROR	500 [mV]	200 [µs]	CLOSE	
7	TP11	TRACKING ERROR	500 [mV]	5 [ms]	OPEN	
8	TP30	TRACKING ERROR	500 [mV]	100 [μs]	CLOSE	



● VAPB Assy (1/2)

No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	Q306 Emitter		0.1 [V]	10 [μS]	1.8 [V]	
2	Q312 Emitter		0.1 [V]	10 [μS]	0.7 [V]	
3	IC402-Pin 6	PB TCIV	0.5 [V]	10 [μS]		(CN328-B8)
4	IC402-Pin 11		0.2 [V]	10 [μS]		
5	Q501 Base		0.2 [V]	10 [μS]		
6	Q505 Emitter		0.5 [V]	10 [μS]		
7	IC502-Pin 3		0.2 [V]	10 [μS]	<u> </u>	
8	Q509 Base	V1 OUT	1.0 [V]	10 [μS]		(CN328-B29)
9	Q513 Base	РВ В-Ү	0.2 [V]	10 [μS]		
10	Q516 Base		0.2 [V]	10 [μS]	2.4 [V]	
11	IC503 - Pin 2		0.2 [V]	10 [μS]	1.6 [V]	
12	IC503 - Pin 14		0.2 [V]	10 [μS]	1.6 [V]	
13	IC507-Pin 3	BOUT	0.5 [V]	10 [μS]		RGB: H (CN326-A10)
14	Q517 Base	PB R-Y	0.2 [V]	10 [μS]		CN328-B24
15	Q520 Emitter		0.2 [V]	10 [μS]	-0.8 [V]	
16	IC504-Pin 2		0.2 [V]	10 [μS]	1.6 [V]	
17	IC504 - Pin 14		0.2 [V]	10 [μS]	1.6 [V]	
18	IC507-Pin 1	R OUT	0.2 [V]	10 [μS]	0.3 [V]	RGB: H (CN326-A10)
19	IC505-Pin 14		0.2 [V]	10 [μS]	1.6 [V]	
20	IC505-Pin 2		0.2 [V]	10 [μS]	0.9 [V]	
21	IC507-Pin 14	GOUT	0.2 [V]	10 [μS]	0.3 [V]	RGB: H (CN326-A10)
22	Q523 Base	В-У	0.2 [V]	10 [μS]	0.4 [V]	S502 : A (B cam)
23	Q526 Base	R-Y	0.2 [V]	10 [μS]	0.3 [V]	S503 : A (B cam)
24	Q527 Collector		0.5 [V]	10 [μS]		S501 : A (B cam)
25	IC507-Pin 3	B-Y OUT	0.2 [V]	10 [μS]		RGB: L (CN326-A10)
26	IC507-Pin 1	R-Y OUT	0.2 [V]	10 [μS]	—	RGB: L (CN326-A10)
27	IC507-Pin 14	YOUT	0.5 [V]	10 [μS]		RGB: L (CN326-A10)
28	IC501-Pin 14	VBS OUT	0.5 [V]	10 [μS]		(CN328-B20)
29	IC508-Pin 27	C SYNC	2.0 [V]	10 [μS]	Application of the second of t	
30	CN328-B19	CS OUT	2.0 [V]	10 [μS]		

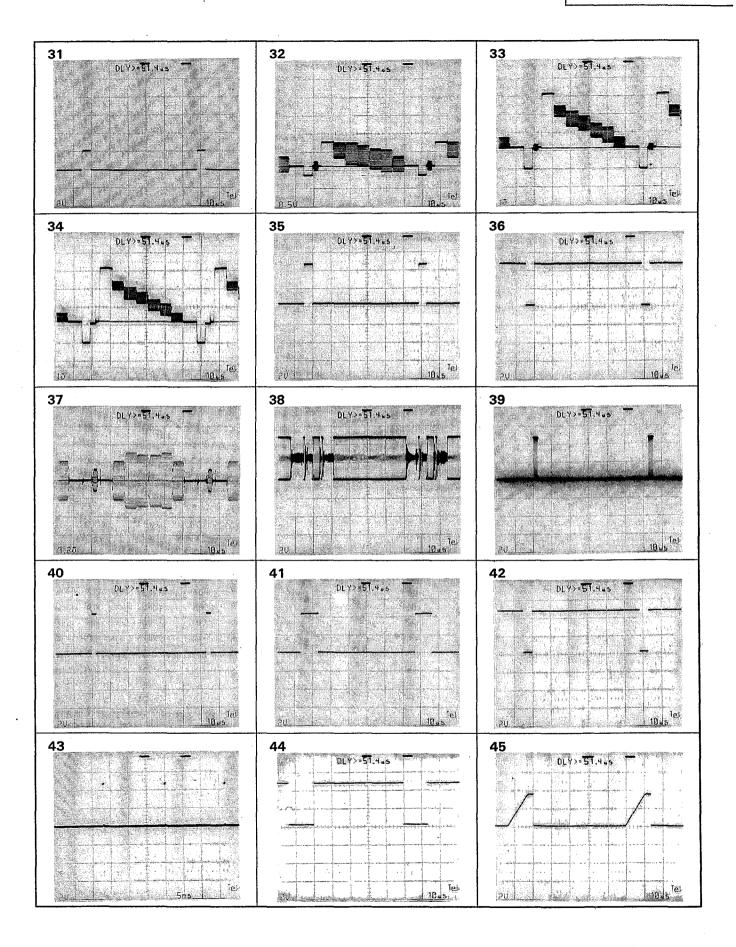


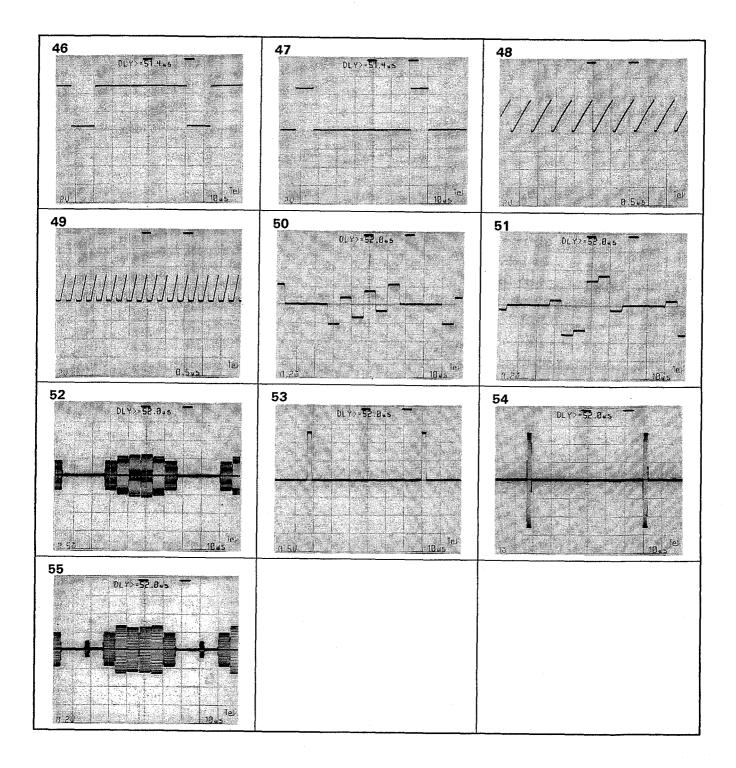


● VAPB Assy (2/2)

INPUT: COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) EE MODE

No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
31	Q532 Emitter		2.0 [V]	10 [μS]	<u>-</u>	
32	Q701 Emitter		0.5 [V]	10 [μS]		
33	Q703 Emitter		1.0 [V]	10 [μS]	6.2 [V]	·
34	IC702-Pin 6		1.0 [V]	10 [μS]	2.0 [V]	
35	IC704-Pin 7		2.0 [V]	10 [μS]		
36	IC707 - Pin 9		2.0 [V]	10 [μS]		
37	Q704 Emitter		0.2 [V]	10 [μS]	-0.6 [V]	
38	IC705 - Pin 8		2.0 [V]	10 [μS]		
39	IC706-Pin 4		2.0 [V]	10 [μS]		
40	IC708—Pin 19	BFPP	2.0 [V]	10 [µS]		
41	IC708-Pin 24	WHD	2.0 [V]	10 [μS]		
42	IC708-Pin 26	C SYNC	2.0 [V]	10 [μS]		
43	IC708-Pin 25	SG VD	2.0 [V]	5 [ms]		
44	IC711-Pin 12		2.0 [V]	10 [μs]		
45	IC706-Pin 1		2.0 [V]	10 [μS]		
46	IC710-Pin 7		2.0 [V]	10 [μS]	****	
47	IC707—Pin 3		2.0 [V]	10 [μS]		
48	IC807-Pin 3		2.0 [V]	0.5 [μs]		
49	IC810-Pin 3		2.0 [V]	0.5 [μs]		
50	Q515 Emitter	В-Ч	0.2 [V]	10 [µs]	2.7 [V]	
51	Q519 Emitter	R-Y	0.2 [V]	10 [µs]	2.0 [V]	
52	Q655 Emitter		0.5 [V]	10 [μS]	-1.0 [V]	
53	IC651-Pin 1		0.5 [V]	10 [μS]		
54	Q654 Emitter		1.0 [V]	10 [μS]	9.0 [V]	
55	Q658 Emitter		0.2 [V]	10 [µS]		

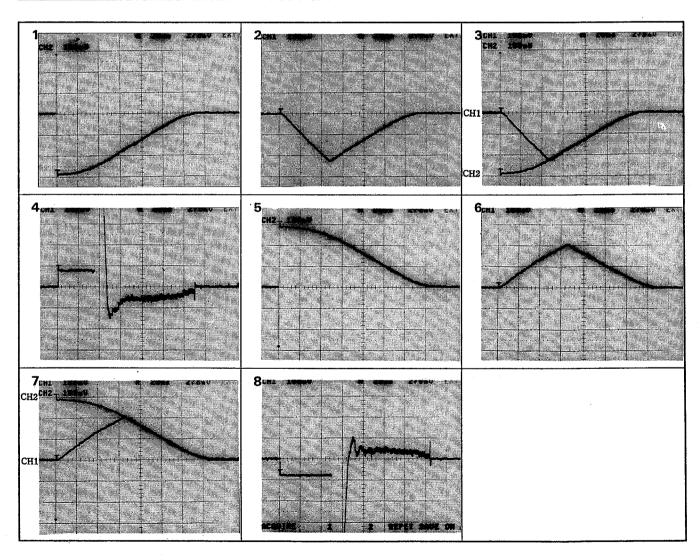




MPU Assy

INPUT: COLOR BAR, COMPOSITE INPUT (Y, R-Y, B-Y) PB MODE

No.	OBSERVATION POINT	SIGNAL NAME	V / div	T / div	OFFSET VOLTAGE	REMARKS
1	TP602 (TP702)	TARGET SPEED	100 [mV]	20 [ms]		FWD 25000 + r
2	TP603 (TP703)	PRESENT SPEED	100 [mV]	20 [ms]		FWD 25000 + r
3	TP602 (TP702): CH1 TP603 (TP703): CH2	SPEED WAVEFORM	100 [mV]: CH1 100 [mV]: CH2	20 [ms]		FWD 25000 + r
4	LME	LME	100 [mV]	20 [ms]		FWD 25000 + r
5	TP602 (TP702)	TARGET SPEED	100 [mV]	20 [ms]		REV 25000 + r
6	TP603 (TP703)	PRESENT SPEED	100 [mV]	20 [ms]		REV 25000 + r
7	TP602 (TP702) : CH1 TP603 (TP703) : CH2	SPEED WAVEFORM	100 [mV]: CH1 100 [mV]: CH2	20 [ms]		REV 25000 + r
8	LME	LME	100 [mV]	20 [ms]		REV 25000 + r



Mark	No. Des	scription	Parts No.	Mark	No.	Description	Parts No.
	C2, C13, C17, C2	5 C20 C42 C47	DCH1043		IC803		TC74HC393AF
	C53, C68, C70, C	3, C29, C43, C47, 33, C85, C89, C90, -C125, C130, C131,	DC111045		IC101		TC74HC4053AF
	C208 (22/20)	0120, 0100, 0101,				506, IC507, IC706, IC806	TC74HC4053AF
					IC801, IC		TC74HC74AF TL601CPS
RESIST	rors				IC701, IC IC704	703	UPC319G2
	VR3, VR4		DCP1047		IC503-IC	C505	UPC4359C
	VR1, VR2, VR5		DCP1051		10000		
	R86, R88 R8		RN1/6PQ1000F RN1/6PQ1001F			06, Q309, Q504, Q509, Q528,	2SA933S
	R11, R12, R64, R	65	RN1/6PQ1002F		Q532, Q6 Q902	58, Q703, Q705, Q801, Q802	2SB1306
	Doo		DN1/CDO1900E		Q101-Q	109, Q201, Q202, Q204,	2SC1740S
	R20 R85		RN1/6PQ1200F RN1/6PQ2000F			08, Q302—Q308,	
	R37, R45, R82, R	87	RN1/6PQ2001F			312, Q501—Q503, Q508,	
	R18		RN1/6PQ2701F			13 – Q527, Q529 – Q531, 657, Q701, Q702, Q704, Q803	
	R4, R81		RN1/6PQ3001F		Ø031Ø0	551, Q101, Q102, Q104, Q005	
	700		DAI /CDOODOD		Q505, Q5	06	2SC3622
	R89 R17, R19, R34, R	25 DA1 DA9	RN1/6PQ30R0F RN1/6PQ3300F		Q901		2SD1961
	R17, R19, R34, R R5, R78	.55, K41, K42	RN1/6PQ3301F		D901		11ES2
	R3, R70		RN1/6PQ4700F		D501-D	506, D701, D702	1SS254
	R7		RN1/6PQ6801F	SWITC	CHES		
	Other Resistors	•	RS1/10S	•	S501-S5	03	DSH1018
OTHER	RS			COILS	;		
		IN CONNECTOR	DKM1007		F801, F9	01. F902	DTF1013
	X3 (13.5MHz)	m commet or	DSS1032		F301	- ,	DTF1027
	X2 (32.236MHz)	DSX1014		F501		DTF1031
	SCREW		BPZ30P100FMC		F651		DTF1032
					VL401	35UH)	DTL1003
VAPB	}					02, L304, L305, L401-L403,	LAU100J
	CONDUCTORS					02, L651, L652, L701, L702,	
SEIVIIC			A TO 0 4 4 A D T		L705,	06, L802, L901	LAU101J
	IC402, IC502		AD844AN CX23065A		L703	04, 1001	LAU121J
	IC802, IC808 IC401		CXA1053Q		2100		•
	IC201		CXD7500M		L202		LAU1R8K
	IC652		M51272FP		L306		LAU220J
					L310		LAU470J
	IC508		MB90061-101A		L503		LAU680J LAU6R8K
	IC104, IC105		MC1495L		L654		LAUROK
	IC708		MN676011NPS MN6761S		L101		LAU8R2J
	IC707		NJM082M		L504, L5	05	LFA100J
	IC702, IC709		NJWOOZW		L309, L6		LFA221J
	IC651		NJM1496M		L307, L3	08	LFA391J
	IC102		NJM2058M	•			
	IC710, IC807, IC	810	NJM360D	CAPA	CITORS		
	IC901		NJM431L		C416, C5	13	CCCCH020C50
	IC805, IC809		NJM4558M			23, C533, C535, C548	CCCCH030C50
	TO=00		NTIN 6701 00 A		C550		CCCCH050C50
	IC509		NJM79L09A PA0023A		C657		CCCCH060D50
			PA3018		C323		CCCCH080D50
	IC301						
	IC301 IC302				CCEO CC	276 0907	CCCCTIOODEO
	IC301 IC302 IC303		PM0001 TC74HC00AF			76, C807	CCCCH100D50
	IC301 IC302		PM0001		C659, C7	752, C753, C803, C818, C823,	CCCCH100D50 CCCCH101J50
	IC301 IC302 IC303		PM0001		C659, C7	752, C753, C803, C818, C823, 334, C839	CCCCH101J50
	IC301 IC302 IC303 IC812		PM0001 TC74HC00AF		C659, C7	752, C753, C803, C818, C823,	

/lark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	C722, C842		CCCCH200J50		C570, C66	3-C666, C668,	CKPUYY103M1
	C133, C135,	C347, C572	CCCCH220J50		C671-C67	75, C677, C679, C718, C724,	
	C415	,	CCCCH221J50			0, C731, C735, C737, C738,	
	C707, C728		CCCCH270J50			1, C746, C748, C754—C756,	
		C577 C570	CCCCH330J50				
	C551, C544,	C577—C579	CCCCH330J30			5, C806, C808, C810, C812, 5, C819, C820, C822, C826,	
	C212		CCCCH430J50			9, C835, C836, C838, C840,	
	C140		CCCCH470J50		C843-C84	15, C901, C904	
	C213, C214		CCCCH510J50				
	C306		CCCCH560J50		C749		CQSA821J50
•	C316, C327,	C403	CCCCH680J50				
	C10F C141		CCCCIIODOIFO	RESIS	TORS		
	C125, C141		CCCCH820J50		VR302, VI	R503, VR505, VR506,	DCP1019 ·
	C348		CCPUCH180J50		VR655	,,,	
	C506		CEANP010M50			R502, VR504, VR656,	DCP1020
	C709, C734		CEANPOR1M50		VR901	1302, 11304, 11030,	DCI 1020
	C329, C547		CEANP101M10			1100 177000	DCD1001
						R102, VR802	DCP1021
	C315, C317,	C350, C701	CEANP220M16			R301, VR304, VR501,	DCP1022
	, ,	C557—C559, C662, C670	CEANP3R3M50		VR651, VI	R652, VR702, VR801	
	C562	230, 2002, 2010	CEAS010M50				
		C010			VR507, VI	R701	DCP1023
	C320, C408,		CEAS101M25		VR653, VI	R654	DCP1036
		C526, C532, C534, C538,	CEAS221M10		•	0, R404, R515, R518, R585,	RD1/6PM101J
	C549					2, R604, R606, R608,	110 11 01 111 U
						19, R621, R625, R652,	
	C102, C104,	C109, C111, C116, C118,	CEAS470M25		R661, R66		
	C130, C132,	C203, C204, C309, C311,			K001, K00	4	
	C331, C332,	C344, C346, C401, C410,			D4-0 D4-	- Day - Day - Day - Day	DD- (AD-FIACT
		C505, C508, C510, C511,			,	7, R215, R321, R331, R332,	RD1/6PM102J
		C525, C537, C552, C554,				4, R705, R721, R730, R753,	
		C566, C574, C576, C580,			R754, R75	7, R801, R815, R836, R838,	
		C654, C656, C660, C667,			R840, R84	1, R906	
					R213, R210	6, R671, R673, R701, R702,	RD1/6PM104J
		C704, C706, C710, C712,				6, R739, R746	
		C727, C732, C736, C739,				, ,	
		C757, C802, C809, C813,			R204, R71	0 R712	RD1/6PM105J
	C831, C833,	C841, C903, C907, C909			R629	·, 111 12	RD1/6PM220J
						9, R141, R151, R201,	RD1/6PM222J
	C406, C407,	C729	CEAS4R7M50		,	22, R309, R313, R315,	RD 1/01 William
	C804, C825		CEASR10M50				
	C207, C209		CEASR47M50			0, R334, R338, R505, R509,	
	C721, C747		CFTXA102J50			0, R531, R552, R553, R576,	
	C715		CFTXA473J50			5, R658, R659, R676, R678,	
	0120				R683, R71	9, R720, R728, R837	•
	C328		CKCYB331K50		R507		RD1/6PM393J
	C206, C211,	C324, C326, C723, C733	CKPUYB102K50			0, R142, R716,	RD1/6PM471J
	C349		CKPUYB121K50		,	51, R756, R839	MATON MALITY
	C337, C338,	C708	CKPUYB181K50				DD1/CDM/470T
	C758		CKPUYB471K50		•	9, R336, R501, R524, R547,	RD1/6PM472J
	•					1, R656, R657, R660, R707,	
	C115 C117	C201, C202, C205, C208,	CKPUYF223Z25		R745, R80	4	
			CKF 0 1 F 223223		R312, R32	4, R333, R675, R723, R724,	RD1/6PM473J
		C575, C651, C653, C655,			R802, R80	3, R816, R817	
		C703, C705, C711, C713,			-,		
		C720, C742, C744, C750,			R158. R41	0 R630	RD1/6PM750J
	C751, C816,	C817, C830, C832, C906,			R503	0, 21000	RD1/6PM820J
	C908				Other Resi	stors	RD1/6FM620J RN1/6PQ□□□
	C101 C102	C108, C110, C112, C113,	CKPUYY103M16		5.1.01 10001	-	الماساسات
			CIZE O I I IOSIMIO	OTHE	RS		
		, C127, C129, C131, C134,				TOOO OF PINI	DIZ. (1002
		, C307, C308, C310,				1328 2P DIN	DKM1007
		, C318, C319, C321, C325,			CONNECT		
	C330, C333,	C335, C341-C343, C345,			X702 (14.3	1818MHz)	DSX1016
	C409, C411,	C417, C502, C504, C512,			X701, X80	1, X802 (14.31818MHz)	DSX1020
		C517, C524, C527, C529,				REW	BPZ30P100FMC
		C540-C543, C551, C553,			50	···	
	, 						
	CEEE CEEC	C561, C563, C565, C567					

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
VAR1	ASSY					218, C238	CEASR10M50
SEMIC	ONDUCTO	DRS			C352 C309, C3	314, C315, C322, C324	CEASR47M50 CGCYF104Z25
	IC201		AD539JN		C243, C3		CKCYB471K50
	IC202		AD844AN		C310		CKPUYF103Z25
	IC301		AD847JN				OZZDZIYZD000705
	IC304		CXD1171M			106, C108, C109, C111, C113,	CKPUYF223Z25
	IC302		CXD1176Q			117, C118, C120, C201, C203,	
						207, C208, C217, C220, C223,	
	IC307		CXD1177Q			228, C229, C232, C234, C236, C242, C301, C302, C305, C307,	
	IC303		CXD2105AQ			312, C313, C316—C318, C320,	
	IC203		LM1881N		C321 C3	323, C325, C327, C336, C339,	
	IC310	•	M51271SP MB88341P			345, C347, C348, C355, C356	
	IC106		WID00341F		0010	010, 0011, 0010, 0000, 0000	
	IC104, IC1	05	NJM2058D		C334		CQMA102J50
	IC210		NJM431L		C340	2000 CO10 COE0	CQMA104J50
	IC207		NJM4556D		C235, C3	331 – C333, C349, C350	CQMA473J50
	IC209		NJM4558D	DE010	TO DO		
	IC101-IC	103	TC4053BP	RESIS	TORS		
			TOTALITICAD A TO		VR301-	-VR303	DCP1019
	IC313	0.5	TC74HC00AP		VR304		DCP1020
	IC204, IC2		TC74HC221AP TC74HC4053AP		VR201,		DCP1021
	IC206, IC3 IC312	09	TC74HC74AP		VR203,	VR204	DCP1022
	IC312 IC305, IC3	06 TC311	TC74HC86AP		VR205		DCP1023 DCP1031
	10303, 103	00, 10311	10.41100011		VR305		DCF 1031
	IC208, IC3	08	TL082CP		R101, R	102	DCN1024
	IC107		TLC548IP			320, R325, R330, R334, R346,	RN1/6PQ1000F
	Q202		2SA933S		R348, R	361	
		3, Q204, Q206, Q301 – Q304			R311, R	318	RN1/6PQ1001F
	Q205		2SD1961		R235		RN1/6PQ1102F
	D001		11ES2		R215, R	236	RN1/6PQ1202F
	D201 D101, D10	9	MTZJ6.2A		2001		DAT1/6DO1201E
	D101, D10	2	1411 230.211		R304		RN1/6PQ1301F RN1/6PQ2001F
COILS	2				R317	322, R347	RN1/6PQ2200F
COILC			T/MT/1001			232, R233	RN1/6PQ2202F
	F301		DTF1021		R309, R		RN1/6PQ2401F
	F302		DTF1022 DTF1023		1000, 10	.010	12.12.12.12
	F303, F304		LAU100J		R302		RN1/6PQ2701F
	L202, L203	3, L201, L301—L304	LAU121J			301, R303, R312, R313, R319,	RN1/6PQ3300F
	L202, L20	3, L 303	Directory		R326, R		
CAPA	CITORS				R307		RN1/6PQ3301F
O/ 11 /			DCM(1001		R213		RN1/6PQ4701F
	TC301		RCM1001 CCCCH100D50		R216, R	306, R331	RN1/6PQ8201F
	C304	1, C222, C224	CCCCH121J50		0.1 5		RD1/6PM□□□J
	C219, C22	1, C222, C224	CCCCH151J50		Other R	esistors	RD1/6PM
	C212, C21	4	CCCCH181J50	отне	DC.		
	0212, 021	•		UINI			TO T. T. 1. 0.0.77
	C335		CCCCH240J50			2P DIN CONNECTOR	DKM1007
	C211, C21	3	CCCCH270J50		X301	(14.31818MHz)	DSS1024
	C358		CCCCH470J50			SCREW	BPZ30P100FMC
	C357		CEANP010M50				
	C303		CEANP100M16	VΔR	2 ASSY		
	C230		CEANP4R7M25				
		1, C351, C353	CEAS010M50	SEMI	ICONDU	710H2	
	C119	•	CEAS100M50		IC106-	-IC108	AD847JN
	C110, C11	2, C114, C116, C202, C205,	CEAS470M25		IC301		CXA1052Q
		6, C226, C227, C231, C233,			IC201		NJM082D
	C239-C2	41, C306, C311, C319, C326,			IC303		NJM431L
	C328-C3	30, C337, C346, C359			IC304		NJM4558D

Mark No. Description	Parts No.	Mark No. Description	Parts No.
IC302	TC74HC04AP	R206, R208	RD1/6PM105J
IC204	TC74HC221AP	R322-R325	RD1/6PM151J
IC104, IC105	TC74HC4052AP	R145	RD1/6PM154J
IC202	TC74HC4053AP	R202, R205, R211	RD1/6PM182J
IC203	UPC319C	R122	RD1/6PM274J
IC101-IC103	UPC4359C	R101-R103, R212, R321	RD1/6PM473J
Q304	2SB1306	R126	RD1/6PM474J
Q102, Q201, Q202, Q301, Q302, Q305	2SC1740S	R201	RD1/6PM561J
Q303	2SD1961	Other Resistors	RN1/6PQ□□□□
Q101	DTC124ES		
D301	11ES2	OTHERS	
D201 – D204	1SS254	CN311 2P DIN CONNECTOR SCREW	DKM1007 BPZ30P100FMC
SWITCHES			
S101-S103	DSH1018	VDEC ASSY	
COILS		SEMICONDUCTORS	
	DODING	IC42	BA728F
F301	DTF1026	IC504	CX23065A
L101, L102, L201, L202, L301	LAU100J	IC17	CXD1171M
L203	LAU221J LAU330J	IC14	CXD1175AM
L302	LAU330J	IC16	CXD1177Q
CAPACITORS		IC6	CXD7500M
C108, C114, C121	CCCCH020C50	IC18-IC21	CXK1206M
C104, C112, C119	CCCCH050C50	IC7	EL2020CN
C313	CCCCH080D50	IC39	HD74ACT166FP
C215, C217	CCCCH101J50	IC26, IC27	HD74ACT283FP
C308, C314	CCCCH120J50	1011 1010 1015	LM360N
COOF	CCCCH470J50	IC11, IC12, IC15 IC34	MB88346BPF
C205 C304	CCCCH680J50	IC34 IC46	NJM082M
C304 C327	CCCCH750J50	IC507	NJM2903M
C208	CEANPOR1M50	IC13	NJM319M
C303	CEAS101M10	1010	
		IC1	NJM431M
C103, C111, C118	CEAS331M6R3	IC2-IC5, IC8, IC10, IC102	NJM4558M
C101, C105-C107, C109, C113, C115,	CEAS470M25	IC44	PD4356D
C116, C120, C122, C123, C129, C132,		IC38	PD4357A
C201, C203, C207, C220, C311, C317, C322, C323		IC22, IC24	TC74ACT157F
C305, C306	CEAS4R7M50	IC23	TC74ACT541F
		IC503	TC74HC161AF
C206	CKCYB331K50	IC48	TC74HC174AF
C319-C321	CKCYB472K50	IC530	TC74HC221AF
C326	CKDYB102K50	IC41, IC47	TC74HC4066AF
C102, C110, CF117, C124—C126,	CKPUYF223Z25		monutron (A)
C128, C130, C131, C133—C136, C202,		IC501	TC74HC74AF
C204, C209, C210, C212—C214, C216,		IC508	TC74HCT04AF
C219, C301, C302, C307, C310, C312,		IC30	TC74HCT541AF TC74HCT574AF
C315, C316, C318, C324, C325		IC28, IC29 IC40	TC7S00F
C211	CQMA473J50	1040	
RESISTORS		IC302 IC506, IC509	TC7S02F TC7S04F
		IC502	TC7S04F
VR301-VR305	DCP1021	IC502 IC505	TC7S66F
VR306	DCP1032	IC300	TC7W04F
R150-R152, R333, R335	RD1/6PM101J	10000	1 O 11 O 11
R203, R207, R209, R303, R306, R314,	RD1/6PM102J	IC9	UPC393G2
R315, R331, R334		IC31 – IC33	UPD42101G-3
R127, R132, R137, R143, R148, R319,	RD1/6PM103J	IC25, IC35, IC36	UPD42102G-3
R320, R327, R328		1020, 1000, 1000	CIDIMIONO U

Mark	No.	Description	Parts No.	Mark	N	ο.	Description	Parts No.
	Q6, Q14—Q1, Q7, Q1 Q13 Q8, Q10, Q Q2, Q9, Q5	18, Q304 Q11	2SA1037K 2SC2412K 2SC3624 2SK508 DTA114EK		C91 C1, C60, C79 C11	C14, C , C61, (—C81, 1, C113	34, C37, C52, C54, C58, C63, C65, C69 – C71, C84, C88, C101, C105, C316 – C320, C323, C324,	CQMA333J50 CQMA471J50 DCH1043
		0300, D303, D304,	DTC114EK 1SS221	RESIS [*]	C506			
	D308-D3	10, D320		RESIS		, VR2,	WP5	DCP1046
	D1 D302 D5, D7, D3 D6, D8 D9—D14	311	MTZ11C MTZJ8.2B SEL3410GLC05 SEL3910DLC05 SEL3C10RLC05		VR4 VR3 R37,	, VR8 , VR6, , R39, 1	VR7, VR9 R44, R91), R326, R327, R330	DCP1047 DCP1051 RN1/6PQ1001F RN1/6PQ1002F
SWIT	CHES					8, R32	L	RN1/6PQ1502F RN1/6PQ2201F
	S2-S4 S1		DSH1018 OSX1007		R38 R332 R104 R4,	2 4, R10		RN1/6PQ2401F RN1/6PQ3300F RN1/6PQ3601F
COILS			D7F1012		R6,	R43, R	90	RN1/6PQ3901F
	F5-F7 F1		DTF1013 DTF1028		R319		2, R328, R329, R331	RN1/6PQ3902F RN1/6PQ4301F
	F4 F2, F3 L1-L3		DTF1029 DTF1048 LAU100K			, R101,	R106, R107	RN1/6PQ5600F RN1/6PQ5601F
	L4 F8-F12		LAU101K VTH1012		R338	8 2	5, R386, R504, R508	RS1/10S102F RS1/10S132F RS1/10S202F
CAPA	CITORS				R53:			RS1/10S302F RS1/10S392F
	C11 C97 C3, C520 C75, C76 C530—C53	32	CCSQCH070D50 CCSQCH101J50 CCSQCH151J50 CCSQCH180J50 CCSQCH181J50	OTHE	R53 Othe		stors	RS1/10S432F RS1/10S□□□J
	C326, C51 C329 C322, C50 C312, C34 C24	3	CCSQCH200J50 CCSQCH220J50 CCSQCH221J50 CCSQCH330J50 CCSQCH331J50		X1 X3	841 (12.28 (32.23	2P DIN CONNECTOR P SOCKET 8MHz) 6MHz) 0MHz)	DKM1007 DKH1001 DSS1025 DSX1014 DSX1015
	C15, C74, C8, C108, C10	C106 C109, C508	CCSQCH470J50 CEANP010M50 CEANPR33M50				REW	BPZ30P100FMC
	C9, C12	C40 C40 C45 C45 C40	CEANPR47M50	ADEN			200	
	C26 – C28,	, C42, C43, C45, C47, C49	CEAS101M25	SEMIC			มหอ	AD96685BQ
	C29 – C33 C46, C48,	9 .7, C16-C19, C22, C23, C25, , C35, C36, C38-C41, C44, C50, C51, C53, C55-C57,	CKSQYB102K50 CKSQYF103Z50 CKSQYF104Z25		IC30 IC51 IC50 IC45 IC50	10 03 53		CX20099 CXD1077M CXD1095Q CXD1208Q
	C59, C62, C83, C85- C102-C1 C300-C3	C64, C66—C68, C77, C82, -C87, C93—C96, C98, 04, C110, C112, 04, C307, C311, C315, C321, 8, C505, C507, C509—C512,			IC4	59, IC5 57 13, IC1	02 (HM6264ALFP-10T)	CXD7500M GGF-913 HM6287P-55 LM6361M LM6364M
	C504 C90		CQMA123J50 CQMA152J50		IC3			MC10H113M MC10H124M

ark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	IC304		MC10H125M		L312, L501	(5.6UH)	DTH1125
	IC306		MC10H131M		L203 (1.5	UH)	DTH1126
	IC308, IC309	a	NJM082M			•	
	10500, 1000		1,52,200,000		L204 (2.2	UH)	DTH1127
	IC105 IC10	7, IC205, IC305, IC318,	NJM431M		L205, L303		DTH1128
	IC504	7, 10200, 10000, 10010,	11,71,710,71,7		L311 (1.8		DTH1129
	IC111, IC20	1 IC314	NJM4560M		L304 (12T		DTH1130
		1, IC313, IC507—IC509,	NJM5532M		L451-L45		DTH1134
	IC513	1, 16313, 16307 16303,	14)1410002141		Diei Die	1 (11 012)	
	IC212, IC51	5	NJM78L09A		L101, L102	2, L106-L109, L307, L310,	LFA101K
	10212, 1001				L502, L503		
	IC516		NJM79L09A		F301-F30	7, F451-F454, F501	VTH1001
	IC454		PD4429A				
	IC311, IC31	2	TC4053BF	CAPA	CITORS		
	IC102	_	TC74HC00AF			.	DCM1008
	IC103, IC11	5	TC74HC04AF		TC501 (2:		CCCUJ330J50
	10100, 1011	_			C506, C520		CCSQCH050D
	IC452		TC74HC10AF		C123, C202		-
	IC464		TC74HC165AF), C543, C585, C588	CCSQCH101J
	IC209, IC45	1	TC74HC32AF		C203, C204	<u>k</u>	CCSQCHIOU
	IC316	•	TC74HC393AF				000000111511
	IC110, IC30	9	TC74HC4053AF		C309		CCSQCH151J
	10110, 1030	2	10/11101000111			3, C541, C546, C548	CCSQCH270J
	IC108, IC20	3 TC206	TC74HC4066AF		C318, C559		CCSQCH330J
	IC455, IC45		TC74HC541AF		C246, C247	7, C257	CCSQCH331J
		O	TC74HC74AF		C205		CCSQCH470J
	IC317		TC74HCU04AF				
	IC458 IC201		UPA101G		C343		CCSQCH471J
	10201		OI AIVIG		C308		CCSQCH510J
	TO101		UPA103G		C547, C549		CCSQCH620J
	IC101	^	UPC319G2		C500, C503	L	CCSQCH680J
	IC208, IC21	U	UPC393G2		C405		CCSQCH750J
	IC315	0001 0000	2SA1462				
		Q201, Q203,	25A1402		C545, C550)	CCSQSL561J
	Q205-Q209	9, Q218, Q311, Q314,			C536, C537		CCSQSL681J
		, Q321, Q503	0CD1114), C251, C270, C524, C593	CEANP010M
	Q303		2SB1114			5, C560, C564, C576, C579	CEANP100M
	0400 0440	0114 0000 0004	0000000		C591, C592	2, C611	CEANP220M
		-Q114, Q202, Q204,	2SC3735				
		Q302, Q313, Q315, Q318,				5, C553, C583, C584, C610	CEAS100M25
	Q322, Q504	, Q510	00701614		C586, C589	9	CEAS101M16
	Q501		2SD1614		C161, C16	8, C455, C458, C461, C477,	CEAS221M16
	Q505-Q508	3	2SK508		C603, C60'	7	
	Q115-Q11	7, Q211, Q213, Q217,	DTA124EK		C103, C10	5, C116, C121, C129, C131,	CEAS470M16
	Q319, Q324		DWO104DIZ			4, C146, C148, C150, C165,	
		-Q216, Q310, Q320,	DTC124EK		C206, C208	8, C212, C213, C215, C220,	
	Q323, Q450	, Q451, Q502, Q511—Q514			C222, C22	7, C230, C242, C244, C248,	
			100001		C272, C27	4, C280, C303, C305, C326,	
	,	, D202, D205, D301, D455,	1SS221			0, C332, C338, C339, C349,	
		4, D506-D509				6, C361, C366, C368, C372,	
	D501, D512		1T33-T8		,	3, C412, C417, C452, C454,	
	D109, D203	, D204, D206, D307	HSM88WA			6, C483, C509, C514, C517,	
	D105		HZS3B2			3, C539, C542, C551, C552,	
	D208, D510	, D511	RB100A		,	5, C569, C570, C613	
	D40E D000	7 154 7 154	OTST 0010C		ŕ		
	D107, D306	, D451-D454	SEL2210S		C567, C58	0	CFTXA224J
	01150				C555, C57	1	CFTXA333J
WIT(CHES				C503		CFTXA334J
	S1, S2		DSH1018		C397		CFTXA473J
					C558, C57	4	CFTXA562J
	:				OF 60 OF 1	20	CFTXA681J
OILS	,				1 007 (07	×	Criamolii
OILS		`13, F16	DTF1003		C562, C57		_
OILS	F10, F11, F	13, F16 F9, F14, F15	DTF1003 DTF1013		C561, C57		CFTXA822J

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	C119, C120 C133, C135 C151-C15 C162, C163	5, C107, C109, C110, C117, 0, C124, C128, C130, C132, 5, C145, C147, C149, 63, C156—C158, C160, 8, C166, C169, C207, C209, 4, C216, C219, C223—C226,	CKSQYB103K50		R213, I R270, I R160, I	R267, R537, R538, R551, R552 R322, R326, R510 R272, R332 R233, R239, R369, R402, R519, R543, R544, R557, R558	RS1/10S242F RS1/10S272F RS1/10S273F RS1/10S302F
	C228, C229 C252-C25	9, C241, C243, C245, C249, 66, C258, C260, C263, C264,				R228, R323, R381, R387, R408,	RS1/10S304F RS1/10S332F
	C310-C31 C328, C331 C340-C34	5-C277, C304, C306, C307, .6, C319-C325, C327, 1, C333-C335, .2, C344-C346, C348, .3, C357, C358, C360, C362,			R110, I R201, I	R542, R546, R554, R556 R135, R139, R148—R150, R216, R223, R235, R301, R302, R397, R512	RS1/10S391F
	C365, C367 C379, C392 C398—C40 C418, C451 C463, C465	7, C369, C371, C373—C377, 2, C369, C371, C373—C377, 2, C394—C396, 13, C409, C411, C415, C416, 1, C453, C456, C459, C462, 5—C475, C481, C482, C502, 7, C508, C510—C513, C515,			R170, I R155, I	R603 R231, R246—R249, R348, R547 R502, R517, R518, R562, R563 R211, R258—R260, R269, R309, R401, R548, R589, R590	RS1/10S392F RS1/10S472F RS1/10S473F RS1/10S512F
	C516, C518	3, C525, C529—C532, C563, 3, C587, C590, C601, C602,			R176, H R528, H R513 R357, H		RS1/10S513F RS1/10S563F RS1/10S750F RS1/10S753F
	C217, C218	2, C111, C164, C201, C210, 3, C278, C279, C301, C302, 7, C381, C406	CKSQYF104Z25		R203, I R577	R204, R310, R398, R539, R553	RS1/10S821F RS1/10S914F
	C521, C526 C522, C557	3	CMA470J500 CQSA221J50		Other F	Resistors	RS1/10S□□□J
				OTHE	RS		
RESIS	TORS				CN318,	, CN320 2P DIN	DKM1007
		4, VR15, VR20 , VR7, VR8, VR11, VR12,	DCP1047 DCP1048		CONNI X1 (32	ECTOR 2.236MHz) SCREW	DSX1014 BPZ30P100FMC
	R353 R354	64, R366, R371	RN1/6PQ1001F RN1/6PQ1602F RN1/6PQ2201F	АМО	D ASS	Y	
	R229		RN1/6PQ3900F	SEMI	CONDU	CTORS	
	R350 R342, R344 R344, R344 R103, R104 R214, R234	9 4, R107, R169, R177, R181, 4, R242—R245, R324,	RN1/6PQ4700F RN1/6PQ5600F RN1/6PQ6800F RS1/10S102F			(HM6264ALFP-10T) IC600-IC602	CX20099 CXD1077M CXD1208Q GGF-913 HM63021FP-34
	R394, R40	5, R370, R388, R389, R391, 0, R406, R407, R410, R505, 5, R516, R600, R726			IC203 IC101 IC250		NJM431M NJM5532DD NJM78L05A
	R254-R25	54, R172, R202, R232, 57, R261, R263, R304, 7, R313, R378, R382, R390,	RS1/10S103F		IC150 IC151	•	NJM78L09A NJM79L09A
	R392, R50 R550, R57	7, R508, R535, R536, R549, 6, R597, R598, R601, R604, 5, R748, R749			IC616	IC421, IC524, IC525, IC608, IC402, IC404, IC511	TC74AC00F TC74AC02F
	R541, R55 R509	_	RS1/10S113F RS1/10S122F		IC312,	IC425, IC507, IC510 IC513, IC607	TC74AC04F TC74AC10F
	R521-R52	26	RS1/10S123F		IC309		TC74AC138F
	R527, R53		RS1/10S183F		IC609	TOTAL TOTAL TOTAL TOTAL	TC74AC157F
	R338, R34 R451 – R45	9, R333—R335, R337, 0, R351, R352, R393, 53, R578, R579,	RS1/10S222F		IC606, IC407,	IC419, IC420, IC504, IC522,	TC74AC163F TC74AC164F
	R591-R59	94			IC523,	IC526	

Mark	No. Description	Parts No.	Mark	No.	Description	Parts No.
	IC422, IC501—IC503, IC605, IC612 IC414, IC423, IC521, IC611 IC410, IC512, IC517, IC519, IC604 IC308, IC406, IC408, IC416, IC418,	TC74AC166F TC74AC174F TC74AC175F TC74AC20F		C213, C214 C223, C224 C215, C216		CFTXA562J50 CFTXA681J50 CFTXA822J50
	IC506 IC417 IC310, IC313, IC527 IC302, IC304, IC305, IC403, IC405, IC411, IC415, IC426, IC508, IC509, IC515, IC603, IC610, IC613, IC615,	TC74AC32F TC74AC574F TC74AC74F		C105, C106 C158-C16 C256-C25	, C707 – C712 , C150, C151, C154, C155, 1, C164, C166, C168, 9, C261 – C264, C270, , C350 – C352,	CKSQYB102K50 CKSQYB103K50 CKSQYF103Z50 CKSQYF104Z25
	IC618			C500-C549		
	IC306, IC401, IC413 IC303 IC311, IC315	TC74AC86F TC74HC08AF TC74HC367AF	RESIS ^T	C260		CQSA221J50
	IC424, IC520 IC314	TC74HC4020AF TC74HC541AF		VR4, VR5	VR6, VR7, VR9 (101, 0.03W)	DCP1046 DCP1050 DCX1020
	IC617 Q700-Q704 Q101	TC7WU04F 2SC1623 2SC3735		R90, R96— R254	R99 (103, 0.03W)	DCX1022 RS1/10S101J
	Q1-Q4 D301, D302	DTC124EK 1T33-T8 HSM107S		R302, R307 R301 R701-R70	7—R309, R605, R607 4	RS1/10S102J RS1/10S104J RS1/10S121J
	D201, D701, D702 D1-D4	SEL2210S		R713 R259, R261	L	RS1/10S152J RS1/10S153J
COILS		7071040		R602		RS1/10S183J RS1/10S221J
	F201 F120, F121 (15kH)	DTF1013 DTF1019		R603 R305		RS1/10S243J
	L301 (5.6UH)	DTH1125		R709, R710		RS1/10S330J
	L601 (2.2UH)	DTH1127		R272, R273	3	RS1/10S331 J
	L705, L706 (1.8UH)	DTH1129		R306		RS1/10S333J
	L701, L702 (0.22UH)	DTH1131		R105, R106	6, R260, R262, R601	RS1/10S393J
	L602 (0.56UH)	DTH1132			2, R750—R755, R790, R791	RS1/10S680J RS1/10S752J
	L703, L704 (1.0UH) L100-L102 (220UH)	DTH1133 DTH1135		R100, R109 Other Resis		RS1/105/32J
	F100-F102, F202	VTH1001		001101 200111		
			OTHE	RS		
CAPA	CITORS				324 2P DIN	DKM1007
	TC1, TC2 (25p) C301	DCM1008 CCCUJ330J50		CONNECT X1 (32.22		DSS1022
	C300	CCCUJ470J50			REW	BPZ30P100FMC
	C601, C703, C704	CCSQCH101J50				
	C207, C208	CCSQCH221J50	ΔIIIF	1 ASSY		
	C211, C212	CCSQCH330J50			ane.	
	C701, C702	CCSQCH470J50	SEIVIIC	CONDUCTO	ono.	A TO COORD COM
	C309 C603	CCSQCH560J50 CCSQCH680J50		IC504 IC502		ADC0832CCN BA6138
	C705, C706	CCSQSL471J50		IC201, IC2	03	M5238AL
	C201—C204, C221, C222, C225, C226, C250, C251	CEYA100M16		IC503 IC300, IC3 IC401, IC4	01, IC351, IC380, IC400, 51	NJM2058D NJM4580L
	C152, C153, C156, C157, C162, C163,	CEYA101M16		•		MC40EPDD
	C165, C167, C252—C255, C291 C217, C218	CEYANP100M25		IC205 IC501		TC4052BP TC4053BP
	C217, C218 C209, C210	CEYANP220M25		IC808		TC74HC00AP
		CETNIA 2241EA		IC802		TC74HC163AP TC74HC164AP
	C304 C219, C220	CFTNA334J50 CFTXA224J50		IC801	,	10/4HC104AF
	C205, C206	CFTXA333J50				

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	IC805		TC74HC175AP	OTHE	RS		
	IC803		TC74HC259AP		CN230		B4B-PH-K-Y
	IC806		TC74HC74AP			P IC SOCKET	DKH1004
	IC202		TC9176P		۵۱	JF IC SOCKET	DKI11004
		7, Q356, Q357, Q406, Q407,	2SA933S				•
	Q456, Q45	67, Q603		AUIF2	2 ASSY		
		2, Q303, Q352, Q353, Q402,	2SB649A	SEMIC	CONDUCT	ORS	
		2, Q453, Q602			IC14, IC1	5	M5238AL
		5, Q354, Q355, Q404, Q405,	2SC1740S		IC11-IC1		NJM4580L
	Q454, Q45		0000007		IC16		TC9176P
		11, Q358—Q361,	2SC3327		Q18		2SB649A
	Q408-Q4	11, Q458—Q461			Q17		2SD669A
		0, Q301, Q350, Q351, Q400,	2SD669A		Q10, Q50		2SK372
		60, Q451, Q601			Q10, Q50 Q11, Q51		DTA124ES
	Q201, Q25		2SK372			, D50-D53	1SS254
	Q202, Q25		DTA124ES		DIO DIO	, 200 200	200201
	Q805 – Q8	10, Q812, Q813	DTC124ES	SWITC	CHES		•
	D200 D20	01, D250, D251,	1SS254		S10, S11		DSH1017
	D300-D3	03, D350 – D353,	100204		,	·	Domin
		03, D450 – D453,		CAPA	CITORS		
		08, D605 – D607, D800	TIZC10NID1		C38, C39,	C78, C79	CCPUCH100J50
	D231, D23	32	HZS10NB1		C14, C16,		CCPUSL680J50
CADA	CITORS				C24, C25,	C34, C35	CEYA100M16
CAFA					C36, C37		CEYA221M16
		2, C351, C352, C401, C402,	CCPUCH100J50		C10-C13	, C50-C53	CEYANP100M25
	C451, C45	2	CE A COOOMOE		017 010	CET CEO	CIZDITADIOITZEO
	C607 C608		CEAS330M35 CEAS331M35		C17, C18,		CKPUYB121K50 CKPUYF223Z25
	C501—C50	04	CEAS3R3M50		C15, C20-	-C23, C26-C33, C55	CKFU I F223223
	C236, C23		CEYA100M16	RESISTORS			
	•						TOCD1004
	C245, C24	6, C605, C606	CEYA101M16		VR10, VR	•	DCP1024
	C307, C30	8, C357, C358, C407, C408,	CEYA471M16		R14, R15,		RN1/6PQ1802F RN1/6PQ3601F
		8, C601-C604				R62, R63 R24, R25, R56, R57, R64,	RN1/6PQ5101F
		03, C251—C253, C315, C365			R10, R17,	K24, K23, K30, K37, K04,	MINIO GOTOTI
	C204, C20	6, C254, C256	CKPUYB121K50		R40-R42		RN1/6PQ6801F
	C380, C38	1	CKPUYB221K50		R18, R19,	DE0 DE0	RN1/6PQ7502F
		2-C235, C238,	CKPUYF223Z25		Other Res		RD1/6PM□□□J
		44, C255, C305, C306,			Other Res	istors	
		13, C355, C356,					
		61, C405, C406,					
		13, C455, C456, 61, C507—C509.		HPA A	ASSY		
	C801 C80					a.p.	
	C001~C0	01		SEMIC	CONDUCT	OK	
RESIS	TORS				IC1		NJM4558D
	VR1-VR	4	DCP1036	COILS	;		
	VR7, VR8	,	VRTS6VS103				DTF1003
	R91-R94		RA4T104J		F1-F3		D1F1003
	R90		RA5T104J	CAPA	CITORS		
		52, R322, R323, R372, R373,	RN1/6PQ1501F	CAFA			
	R422, R42	23, R472, R473			C5, C6		CEYA101M16
	D006 D06	NA DOOG DOOL DOES DOES	DAII (CDOGGGE		C1, C2		CEYANP100M25
	•	97, R320, R321, R356, R357,	RN1/6PQ3302F		C3, C4		CKPUYB221K50
		71, R406, R407, R420, R421,		D=0:0	T050		
		57, R470, R471 32, R300—R303,	RN1/6PQ6801F	RESIS	IORS		
		53, R400—R403,	TOTATIOE MOODIL		VR101	(10k-A, 0.05W)	DCS1016
	R450~R4				R5, R6		RN1/6PQ3302F
	Other Res		RD1/6PM□□□J		Other Res	sistors	RD1/6PM□□□J
	COLOR ICO						

Mark No. Description	Parts No.	Mark No. Description	Parts No.
		СЗ	CFTXA104J50
OTHERS		C118	CFTXA224J50
JA1 JACK (HEADPHONE)	DKN1069	C15	CFTXA334J50
PLATE	VNE1102	C112	CGCYF104Z25
REJ SW ASSY		C1, C11, C24, C26—C37, C46, C47, C125, C132, C134, C140	CKPUYF103Z25
		C125, C152, C154, C140 C101, C102	CQMA102J50
SWITCH		C115	CEANP010M50
S1	DSG1030	C103, C110, C117	CQMA103J50
AUCN ASSY		C51, C52 C104	CQMA122J50 CQMA153J50
		C137	CQMA222J50
AUCN Assy has no service part.		C109	CQMA272J50
		C106, C107	CQMA273J50
ADDC ASSY		C121	CQMA473J50
SEMICONDUCTORS		PECICTOPS	
IC8	LM6361N	RESISTORS	D CD1000
IC104, IC107	NJM2903D	VR1, VR2	DCP1022
IC108	NJM4558D	R106, R107	RN1/6PQ1003F
IC24	TC74HC00AP	R122	RN1/6PQ2201F RD1/6PM□□□J
IC17, IC23	TC74HC04AP	Other Resistors	
IC13	TC74HC123AP	OTHERS	
IC12	TC74HC221AP	CN1 2P DIN CONNECTOR	DKM1007
IC4, IC19	TC74HC244AP	X1 (6.56943MHz)	DSS1018
IC110, IC111	TC74HC4066AP TC74HC574AP	X2 (6.5694MHz)	DSX1013
IC2, IC3, IC5, IC21, IC22	10/41103/4/11	84P SOCKET	DKH1001
IC101, IC102, IC106, IC109	TL082CP	20P IC SOCKET	DKH1004
IC101, IC102, IC100, IC103	UPC311C	OD IC COCKET	DKH1005
IC1, IC18 (XC3042-70PC84C)	GGF-915	8P IC SOCKET SCREW	BPZ30P100FMC
Q102, Q103	2SA933S	SCRE W	
Q100, Q101	2SC1740S		
Q1	DTC124ES	SPDL ASSY	
D3. D4	1SS108	SEMICONDUCTORS	
D1, D2, D7, D8, D102, D103,	1SS254		LF398N
D106-D109		IC101 IC103	NJM2903D
		IC103 IC102, IC105	NJM2904D
COILS		IC107	NJM4558D
L1	LAU101K	IC201, IC206	TC74HC00AP
L5	LFA102J		
L3	LFA122K	IC203	TC74HC04AP
L2, L4	LFA821K	IC204	TC74HC08AP TC74HC123AP
F1-F3, F101, F102	VTH1001	IC104	TC74HC139AP
CAPACITORS		IC209 IC214—IC217	TC74HC163AP
	CCCCH101J50		MONATIONAL AD
C10, C48, C122 C100, C105, C111, C114	CCCCH151J50	IC202	TC74HC221AP
C22, C23, C136	CCCCH220J50	IC207, IC208	TC74HC32AP TC74HC541AP
C133	CCCCH221J50	IC210	TC74HC54IAI
C50, C53	CCCSL271J50	IC211 – IC213 IC205, IC219	TC74HC74AP
C21, C116, C138	CEAS010M50	,	TC74HCU04AP
C120	CEAS100M16	IC218, IC220	TC9192AP
C145	CEAS101M10	IC106	2SA933S
C127-C130, C142, C144	CEAS220M25	Q103, Q104 Q102	2SC1740S
C2, C25, C38-C42, C119, C135, C13	39 CEAS470M10	Q102 Q105	2SK184
0110	CEAS4R7M50	WALCO.	
C113	OPUSAK! MOO		

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	Q101, Q106		DTA124ES		IC125		TC74AC00F
	Q107-Q109)	DTC124ES		IC113		TC74AC04F
	D101-D111		1SS254		IC110, IC	2111	TC74AC138F
	D201-D205	;	SEL2210S		IC109		TC74AC139F
COILS	2				IC114, IC	2127	TC74AC32F
COILC	F101, F102,	F201 F202	VTH1001		IC915		TC74HC00AF
	1101, 1102,	1201 1203	V 1111001		IC921		TC74HC02AF
CAPA	CITORS					C913, IC920	TC74HC04AF
			CCCCH100D50		IC504, IC	C914, IC919	TC74HC08AF TC74HC107AF
	C216, C217 C115, C221		CCCCH151J50		10910		10/411010/71
	C115, C221		CEANP010M50		IC119		TC74HC109AF
	C106, C206	•	CEAS100M50		IC503		TC74HC123AF
		C108, C114, C118, C119,	CEAS470M16			C117, IC901—IC903	TC74HC161AF
		C126, C205, C219, C220			IC911		TC74HC164AF
					IC121, IC	2910	TC74HC165AF
	C116		CFTNA224J50				
	C104		CFTXA103J50		IC904		TC74HC175AF
	C109		CFTXA154J50		IC918	2710	TC74HC21AF TC74HC221AF
	C202		CFTXA223J50		IC619, IC	719 C128, IC909	TC74HC221AF TC74HC245AF
	C117		CFTXA333J50			C905—IC908	TC74HC245AF
	C110		CFTXA683J50		10300, 10	2000 10000	10/411020/111
	C101		CFTXA823J50		IC617, IC	2717	TC74HC4053AF
	C111, C112		CKCYB102K50	,		505, IC506, IC912	TC74HC541AF
		C121, C204, C207-C215,	CKPUYF223Z25			C122, IC917	TC74HC74AF
	C218, C222				IC601, IC		TC74HCT374AF
	C201, C203		CQMA102J50		IC609, IC	2709	UPC815C
RESIS	STORS				IC101		UPD70320L-8
	R224		RA8S103J			PD71059GB-10-3B4)	GGF-916
	Other Resist	ors	$RD1/6PM\square\square\square J$		Q101, Q6		DTC124EK 11ES2
					D503, D5		1SS123
OTHE					•	·	
		DIN CONNECTOR	DKM1007			105, D501, D502,	1SS220
	X101 (3.75M		VSS1009			609, D702-D709	CT21 9010C
	SCR	EW	BPZ30P100FMC		D107		SEL2210S
MDH	ASSY			COILS	i		
					F101, F5	01-F506	VTH1001
SEMI	CONDUCTO	RS		CARA	CITORS		
	IC123, IC126		CXD1095Q	CALA			000011101750
	,	2 (HM6264ALFP-10T)	GGF-913			68, C767, C768	CCCCH121J50
		5, IC712, IC715	LM6361M		C661, C7		CCCCH150J50 CCCCH470J50
	IC107		M5295L		C660, C7		CCSQCH150J50
	IC108		M751701P		C658, C7		CCSQCH221J50
	IC613, IC71	3	NJM082M		,		
	,	0, IC711, IC720	NJM2901M		C137, C1		CCSQCH330J50
	IC614, IC71		NJM311M		C673, C7		CCSQCH820J50
		5, IC608, IC610, IC704,	NJM4558M			655, C751—C755	CCSQSL681J50
	IC705, IC70		3773 64 5003 5		,	17-C520	CEAS100M16 CEAS101M16
	1C616, 1C61	8, IC716, IC718	NJM4560M		C132, C1	33, C136, C515, C516	CEVEINIMI
	IC507		NJM78M09FA			02, C513, C514	CEAS221M6R3
	IC508		NJM79M09FA		C110, C2	04	CEAS4R7M50
	IC602, IC70	2	NJMDAC-08M-C		C205	177 A	CEASR47M50
	IC501	A TORRE TORRE TORRE	PD4298A		C674, C7		CFTNA224J50 CFTXA681J50
	*	6, IC607, IC703, IC706,	TC4053BF		C665, C7	ซอ	Cr iamodijou
	IC707				C669, C7	769	CFTXA821J50
					C920		CKCYB821K50

Mark No. Description	Parts No.	Mark No. Description	Parts No.
C111, C112 C101-C106, C113-C131, C134, C135, C140, C203, C501-C510, C601-C642, C701-C742, C900-C919	CKSQYB102K50 CKSQYF104Z25	RESISTORS R108 R120 R105 Other Resistors	RA10S103J RA8S332J RA8S473J RD1/6PM□□□J
C109 C670, C770 C650, C656, C672, C750, C756, C772 C664, C666, C764, C766 C662, C663, C762, C763	CQMA152J50 CQMA222J50	OTHERS X102 X101 (16MHz) 28P SOCKET 84P SOCKET	DSS1001 DSS1021 VKH1001 DKH1001
C671, C771 C657, C757 C659, C759 C511, C512	CQMA223J50 CQMA332J50 CQMA682J50 CQMA823J50	422CN ASSY SEMICONDUCTORS	
RESISTORS		D201-D206, D209, D210,	MTZJ16B/C
R101, R108, R116, R117, R119, R123	, DCX1022	D213-D216, D219, D220	
R249, R501—R503 (10k, 0.03W) R118 (3.3k, 0.03W) Other Resistors	DCX1021 RS1/10S□□□J	RESISTORS All Resistors	RD1/6PM□□□J
OTHERS		OTHERS	•
CN314, CN316 2P DIN CONNECTOR 84P SOCKET	DKM1007 DKH1001	JA1, JA2 9P D-SUB SOCKET JA3 15P D-SUB SOCKET	DKN1051 DKN1052
8P IC SOCKET X101 (16MHz) 28P SOCKET SCREW	DKH1005 DSS1021 VKH1001 BPZ30P100FMC	MOTHER ASSY OTHERS	
		CN237 CN229	B3B-PH-K-S B4B-PH-K-Y
422IF ASSY		J301 CONNECTORASSY	DKP2045
SEMICONDUCTORS		J302 CONNECTORASSY J303 CONNECTORASSY	DKP2046 DKP2047
IC104 IC109 IC106	HM6264AP-12 M5295L MC34050P	CONNECTORASSY (CN201 – CN202)	DKP2055
IC102 IC107	TC74HC138AP TC74HC4053AP	CONNECTORASSY (CN203 – CN204) CONNECTORASSY	DKP2056 DKP2057
IC105 IC101 IC108	TC74HC541AP UPD70320L-8 UPD72001C-11	(CN205 - CN206) CONNECTORASSY (CN209 - CN210)	DKP2059
Q101 D101 – D108	DTC124ES 1SS254	CONNECTORASSY (CN211-CN212)	DKP2060
COILS		CONNECTORASSY	DKP2061
F102, F103 F101	DTF1003 VTH1001	(CN213 – CN214) CONNECTORASSY (CN215 – CN216)	DKP2062
F104-F115	VTH1005	CONNECTORASSY	DKP2064
CAPACITORS		(CN219—CN220) CONNECTORASSY	DKP2075
C106, C107 C120, C121 C116, C117	CCCCH150J50 CCCCH270J50 CEAS101M10	(CN243 – CN244) CONNECTORASSY (CN207 – CN208)	DKP2207
C102 C105, C108—C115, C118, C119	CEAS4R7M50 CGCYF104Z25	CONNECTORASSY (CN217 – CN218)	DKP2208
C103, C104 C101	CKCYB102K50 CKCYF223Z50	(02.12102.122)	

Mark	No.	Description	Parts No.	Mark	N	٥.	Description	Parts No.
CNNB	ASSY			COILS			•	
OTHER					F4-			DTF1013
OTTIL	CN113, CN CN109, CN CN12 CN210		B2B-PH-K-S B3B-PH-K-S B5B-EH B4B-PH-K-R	CAPA	C11 C12		C8	VTH1001 CCSQCH220J50 CCSQCH101J50 CCSQCH150J50
FR3 A	ASSY				C10 C14			CCSQCH181J50 CEAS100M25
SEMIC	CONDUCTO	PRS			OIT			
	D17-D48		1SS254		C15			CEAS101M25 CEANP100M16
OTHE	RS CN603		DKP2141		C19 C1- C18 C6,			CEAS331M16 CEAS470M50 CEAS4R7M50
FR1 A	ASSY	npe			C10	, C17 1—C13	6, C140 – C149, C207, C208	CEASR15M50 CKSQYB102K50 CKSQYF104Z25
SEMIC		car	CXD1095Q		C9			CKSYF105Z16
	IC10 IC44—IC47 IC18	•	HM62256ALFP-8T M5295L	RESIS				DCP1023
	IC50 IC6, IC33,	IC35	PQ12RF11 TC74HC04AF			2 1, R103	3	RA4S103J RA8S103J RS1LMF151J
	IC32, IC34 IC28 IC25, IC29		TC74HC08AF TC74HC160AF TC74HC161AF	OTHE		er Resi	stors	RS1/10S
	IC27 IC48, IC49		TC74HC164AF TC74HC165AF	01112	CN		P CONNECTOR	B2B-PH-K-S DKP2141
	IC26 IC5 IC4, IC42, IC17	IC43	TC74HC20AF TC74HC244AF TC74HC245AF TC74HC245AP		CN	702 26 604 16	SP CONNECTOR SP CONNECTOR ON RIVET	DKP2142 DKP2143 DEC-117
	IC31		TC74HC32AF TC74HC541AF	⚠	L1	84P S	IUM BATTERY OCKET	DEM1002 DKH1001 DKH1004
	IC1-IC3 IC16 IC40, IC41 IC21-IC2		TC74HC541AP TC74HC573AF TC74HC74AF				C SOCKET SOCKET ER	DKH1005 DPX1007
	IC15 IC7		UPD43257AGU-10L UPD70320L-8		X1,		L6MHz) OCKET CW	DSS1021 OKH1006 BBZ30P080FMC
	IC20 (UPI IC8 (XC30 Q1, Q6	072020GC-8-3B6) 42-70PC84C)	GGF -914 GGF -915 2SC2412K 2SD1614	FR2N	v1	5 7 1 1		
	Q2		2001014	SEMI	CON	DUCT	ORS	
	Q4 Q3 Q5 D3, D4 D2, D5		2SD669A DTA124EK DTC124EK 11ES2 1SS254			Q5, Q D5, I	09 — Q14 09 — D14	CXD1095Q TC74HC540AF DTC124EK 1SS221 SLH-56VC3H
	D1		MTZJ5.6B	SWIT	CHE	s		
SWI	TCH S1		VSC-012		S5 S1 S1	4 2		DSG1031 DSG1032 DSG1033
					S1	−S4, S	9-S11, S13	DSG1036

Mark No.	Description	Parts No.	Mark	No.	Description	Parts No.		
CAPACITORS			SCNB	SCNB ASSY				
C1-C8		CCSQCH101J50	OTHER	RS				
C901, C9	902, C907, C908	CKSQYF104Z25		CN163		5597-08APB		
RESISTORS				CN167		ВЗВ-РН-К		
R903 (1 R901	10k, 0.03W)	DCX1022 OCN1020	CENC	ACCV				
Other Re	esistors	RS1/10S		ASSY				
OTHERS			SWITC	S104-S10	^	DSG1015		
	34P CONNECTOR	DKP2141		3104-310	y	D2G1013		
			MCNE	ASSY				
FR2S ASSY			CAPAC					
SEMICONDUC	TORS			C105		CGCYF104Z25		
Q6-Q8		DTC124EK		0100		00011104220		
D6-D8 D15, D16	6	1SS221 SLH-56VC3H	CASW	ASSY				
	O	SLH-50 VC5H	SWITC					
SWITCHES				S101		DSK1004		
S6-S8		DSG1037	OTUED					
RESISTORS			OTHER			EEOZ OSADD		
All Resis	stors	RS1/10S□□□J		CN164		5597-08APB		
JOG ASSY			FGSB	ASSY				
SEMICONDUC	TOR		SEMIC	ONDUCTO	PR			
IC101		GP1A30R		IC101		GP1A30R		
CAPACITOR			CAPAC	ITOR				
C101		CKSQYF104Z25		C104		CKPUYF223Z25		
		CR3Q11104223	RESIST	ORS				
RESISTOR				All Resistor	rs	RD1/6PM□□□		
R101		RS1/10S121J			-			
FPCN ASSY			SVAW	ASSY				
OTHERS			SEMIC	ONDUCTO	PRS			
CN238 CN701	CONNECTOR SCREW	B3B-PH-K-S DKP2140 PMZ26P100FMC		IC210, IC30	02, IC206, IC207, IC209, 01, IC303, IC307–IC310,	NJM2903M NJM4560M		
	NUT	NB26FMC		IC312, IC31 IC401 IC402	.5, 1C403	NJM7805FA NJM7905FA		
ACCN ASSY				IC304		PM4001		
COILS				IC102 – IC1 IC107, IC31		TC4094BF TC74HC00AF		
<u>∧</u> L1, L2		DTH1140		IC101	, 10014	TC74HC123AF		
CAPACITORS				IC305		TC74HC221AF		
•	103 (10000 _P F)	RCG-009		IC203, IC20 IC208, IC30	94, IC404 92, IC306, IC311	TC74HC4052AI TC74HC4053AI		
OTHERS				IC105 IC205		TC74HC541AF		
	5	SD-5277-02A		10200		UPC812G2		

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	D401, D402 D201-D204	, D306 D301—D305	11ES2 1SS123 1SS220		R118 R207		RS1/10S333J RS1/10S334J
CAPA	D101, D103, D102 CITORS	D201-D209	SEL3C10RLC05		R103, R106 R233-R23	5, R240, R242, R243,	RS1/10S470J RS1/10S471J RS1/10S472J
	C214 C107-C109 C209, C212, C304		CCSQCH100J50 CCSQCH101J50 CCSQCH220J50 CCSQCH271J50			2, R254, R256—R260, 3, R334, R339, R341, R412	RS1/10S474J RS1/10S514J
	C312		CEANP010M50		R321 R312, R313	3. R389	RS1/10S564J RS1/10S623J
	C343 C317 C356 C101, C352 C401—C406		CEANP100M25 CEANPR22M50 CEANPR47M50 CEAS010M50 CEAS470M25		R359 R360 R401		RS1/10S823J RS1/10S912J RS2LMF220J
					Other Resis	stors	RS1/10S
	C342 C332 C302 C339, C344 C102, C128		CFTNA474J50 CFTXA104J50 CFTXA273J50 CFTXA563J50 CFTXA683J50	OTHEF	CN120	P IC SOCKET	B3B-PH-K-S DKH1004
	C112-C114	, C333	CFTXA823J50	SVAE	ASSY		
		, C110, C111, , C201—C208, C210,	CKSQYB223K50 CKSQYB471K50 CKSQYB821K50 CKSQYF104Z25	SEMIC		DRS 02, IC706, IC707, 711, IC801, IC803,	NJM2903M NJM4560M
	C211, C215- C310, C311, C329, C330,	-C224, C305 - C308, C316, C318, C322 - C325, C334 - C337, C340, C341, C355, C407, C408,				310, IC812, IC815, IC903	NJM7805FA NJM7905FA
	C410-C414				IC804 IC602-IC6	504	PM4001 TC4094BF
	C314, C315 C303 C320 C331		CQMA102J50 CQMA112J50 CQMA123J50 CQMA272J50		IC607, IC8 IC601 IC805	13, IC814	TC74HC00AF TC74HC123AF TC74HC221AF
	C313		CQMA332J50			04, IC904 02, IC806, IC811	TC74HC4052AF TC74HC4053AF
	C326 C327 C301, C328		CQMA392J50 CQMA472J50 CQMA821J50		IC605 IC705 Q601, Q801	1, Q802	TC74HC541AF UPC812G2 DTC124EK
RESIS	TORS				D901, D902		11ES2
	VR1-VR3, VR8-VR10 VR7, VR14		DCP1024 DCP1036 DCP1037		D701-D70 D601, D603 D602	04, D806 3, D801—D805	1SS123 1SS220 SEL3C10RLC05
	VR4-VR6, VR11	VR16	DCP1038 DCP1039	CAPAG	CITORS		
		R336, R395, R396 R201, R205, R211, R215,	DCP1042 RA8T103J RS1/10S102J RS1/10S105J		C714 C607—C60 C709, C712 C804 C812	9 2, C713, C909	CCSQCH100J50 CCSQCH101J50 CCSQCH220J50 CCSQCH271J50 CEANP010M50
	R393 R392 R333 R320		RS1/10S114J RS1/10S162J RS1/10S163J RS1/10S225J		C843 C817 C856 C601, C852 C901—C90		CEANP100M25 CEANPR22M50 CEANPR47M50 CEAS010M50 CEAS470M25

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	C842		CFTNA474J50		R901		RS2LMF220J
	C832		CFTXA104J50		Other Res	istors	RS1/10S□□□F
	C802		CFTXA273J50				
	C839, C844		CFTXA563J50	OTHER	RS		
	C602, C628		CFTXA683J50	0			
	C002, C020		01 1201000300		CN110		B3B-PH-K-S
	C612-C614	4 C022	CFTXA823J50		20	OP IC SOCKET	DKH1004
		•	CKSQYB223K50				•
	C809, C819		-				
	C729		CKSQYB471K50	HE-V	V ASSY		
	C853, C854		CKSQYB821K50				
		6, C610, C615—C617,	CKSQYF104Z25	SEMIC	ONDUCT	ORS	
		8, C710, C711,			IC2		LM6361M
		4, C731, C732,			IC3		NJM2060M
		8, C810, C811, C816, C818,			IC4		NJM78L05UA
		5, C829, C830,			IC5		NJM79L05UA
	C834-C83	7, C840, C841,					TL592BP
		1, C855, C907, C908,			IC1		1L39ZDF
	C910-C914						00.41.400
					Q10		2SA1462
	C814, C815		CQMA102J50		Q7		2SC3356
	C803		CQMA112J50		Q1-Q6		2SC3663
	C820		CQMA123J50		Q9		2SC3735
					D3, D4		1SS123
	C831		CQMA272J50		•		
	C813		CQMA332J50		D1, D2		1SS220
					D5, D6		HSM107S
	C826		CQMA392J50		20, 20		
	C827		CQMA472J50	COILS			
	C801, C828		CQMA821J50	COILO			
		•	,		L3-L6	(10UH)	DTH1124
RESIS	TORS				L1		OTL1008
		DEGG TIDETO	DCD1004		L2		OTL1022
		R503, VR513	DCP1024		L7, L8 (10MH)	VTL1007
	VR508-VI		DCP1036			- 	
	VR507, VR		DCP1037	CAPAC	CITORS		
	VR504VI	R506, VR516	DCP1038	OAI A			
	VR511		DCP1039		C201-C2	04	CCSQCH151J50
					C207-C2	10	CCSQCH180J50
	VR512		DCP1042		C116, C11	7, C124	CCSQCH221J50
	R501, R502		RA8T103J		C113		CKSQYB222K50
		2, R836, R895, R896	RS1/10S102J		C105, C10	6. C123	CKSQYB682K50
		, R701, R705, R711, R715,	RS1/10S105J		,	, , , , ,	•
	R858	, 11, 02, 11, 00, 11, 12, 11, 10,	,, ,		C107-C1	10, C114, C115, C118, C120,	CKSQYF104Z25
	R892		RS1/10S162J		C205, C20		0110 Q 11 10 1000
	1032		1.51/1051023		C122	, 0	CKSQYF223Z50
	Dogo		DC1/10C169T			02 C201 C200	DCH1043
	R833		RS1/10S163J			03, C301—C308	
	R893		RS1/10S114J		C119, C12	31	DCH1044
	R767, R768	5	RS1/10S222J		C104		DCH1046
	R820		RS1/10S225J				
	R618		RS1/10S333J	RESIST	TOR'S		
					VR1		DCP1045
	R707		RS1/10S334J				DCP1046
		, R815, R861, R871, R882	RS1/10S470J		VR2		
	R603, R606		RS1/10S471J		R120	DO TOO!	RS1/10S101J
	R733-735.	R740, R742, R743,	RS1/10S472J			22, R201—R204	RS1/10S102J
		2, R754, R756-R760,	•		R124, R12	25	RS1/10S220J
		3, R834, C839, R841, R912					
	KOZZ, KOZC	, 100±, 0000, 10±1, 110±2			R117		RS1/10S330J
	Deni Doge		RS1/10S474J		R114		RS1/10S332J
	R601, R835	,			R126		RS1/10S620J
	R894		RS1/10S514J		R128		RS1/10S680J
	R821		RS1/10S564J		Other Res	sistors	RS1/10S□□□F
	R812, R813	3, R889	RS1/10S623J		June Ite		
	R814		RS1/10S822J	ОТЦЕ	20		
				OTHE	(Q		
	R859		RS1/10S823J		CN159		5597-11CPB
	R860		RS1/10S912J		CN116		B2B-PH-K-S
			-		•		

Mark No. Description	Parts No.	Mark No. Description	Parts No.
HE-E ASSY		IC413	NJM4250M
SEMICONDUCTORS		IC415	NJM4560M
IC52 IC53 IC54 IC55 IC51	LM6361M NJM2060M NJM78L05UA NJM79L05UA TL592BP	IC421 IC411 IC416, IC417 IC420 IC422	TC74AC541F TC74HC4053AF TC74HC4066AF TC74HC86AF TC7S00F
Q60 Q57 Q51—Q56 Q59 D53, D54	2SA1462 2SC3356 2SC3663 2SC3735 1SS123	IC419, IC423 IC418 Q403, Q404 Q401, Q402 Q405—Q412	TC7S08F UPC812G2 2SA1424 2SA1462 2SA1464
D51, D52 D55, D56 COILS	1SS220 HSM107S	Q420 Q419	2SA812 2SC1623 2SK508 DTA124EK
L53-L56 (10UH) L51 L52	DTH1124 OTL1008 OTL1022		DTC124EK 1SS220
L57, L58 (10MH)	VTL1007	CAPACITORS	
CAPACITORS C251-C254 C257-C260 C166, C167, C174 C163 C155, C156, C173 C157-C160, C164, C165, C168, C170,	CCSQCH151J50 CCSQCH180J50 CCSQCH221J50 CKSQYB222K50 CKSQYB682K50 CKSQYF104Z25	C448 C442 C416, C433	CCSQCH220J50 CCSQCH680J50 CKSQYB102K50 CKSQYB103K50 CKSQYF104Z25
C255, C256 C172 C151—C153, C351—C358 C169, C171 C154	CKSQYF223Z50 DCH1043 DCH1044 DCH1046	C436 C440, C601—C604	DCG1010 DCH1044 DCH1044 DCH1045
RESISTORS		RESISTORS	
VR51 VR52 R170 R171, R172, R251—R254 R174, R175	DCP1045 DCP1046 RS1/10S101J RS1/10S102J RS1/10S220J	VR404, VR406 VR401 R413, R417, R418, R477, R481—R486 R402, R414, R426, R437	DCP1049 DCP1050 DCP1051 RS1/10S103F RS1/10S121F
R167 R164 R176 R178 Other Resistors	RS1/10S330J RS1/10S332J RS1/10S620J RS1/10S680J RS1/10S	R430, R435 R441 R404	RS1/10S124F RS1/10S153F RS1/10S202F RS1/10S222F RS1/10S301F
OTHERS			RS1/10S302F RS1/10S303F
CN157 CN114	5597-11CPB B2B-PH-K-S	R460 R443	RS1/10S331F RS1/10S511F RS1/10S623F
APC1W ASSY		R431	RS1/10S752F
SEMICONDUCTORS		R410	RS1/10S753F
IC412 IC410 IC414	LF398N LM6364M NJM082M	OTHERS CN161	RS1/10S D D D S 5597 - 06APB DKN1047

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
APC2W ASSY				C508, C51	3 0, C701—C704	DCG1010 DCH1044	
SEMIC	SEMICONDUCTORS				C536, C54 C545	0, 0701-0704	DCH1045
	IC609 IC605 IC604 IC601, IC60 IC607, IC60 IC602, IC60	8	RWT025L-2 TC74HC00AF TC74HC02AF TC74HC04AF TC74HC10AF TC74HC541AF	RESIS	TORS VR502-V VR506 VR501	R504 7, R518, R577, R581 – R586	DCP1049 DCP1050 DCP1051 RS1/10S103F
COILS					R502, R51		RS1/10S121F
	L601-L604	(2.2UH)	DTH1138		R527 R530		RS1/10S124F RS1/10S153F
CAPA	CITORS				R504		RS1/10S222F
	C648-C656 C657 C658	, C659	CKSQYF104Z25 DCH1043 DCH1044		R503 R529 R560		RS1/10S301F RS1/10S303F RS1/10S331F
RESIS	TORS				R543 R528		RS1/10S511F RS1/10S623F
	R601, R602 Other Resist	ors	RA8T103J RS1/10S□□□J		R531 R510		RS1/10S752F RS1/10S753F
OTHE	RS				Other Resi	stors	RS1/10S□□□J
	CN601, CN6	02 10P CONNECTOR	DKN1048	OTHER	RS		
	- 400V			•	CN155	1512 10P CONNECTOR	5597 – 06APB DKN1047
	E ASSY	ne.			CN311, Cr	1012 TOT CONVECTOR	DIMITOTI
SEIVIIC	CONDUCTO	rs .		A DOO	E 400V		
	IC512 IC510 IC514 IC513 IC515		LF398N LM6364M NJM082M NJM4250M NJM4560M		E ASSY CONDUCTO IC805 IC804 IC802, IC8		TC74HC00AF TC74HC02AF TC74HC541AF
	IC521 IC511 IC516, IC51 IC520 IC522	7	TC74AC541F TC74HC4053AF TC74HC4066AF TC74HC86AF TC7S00F	COILS		94 (2.2UH)	DTH1138
	IC519, IC52 IC518 Q505-Q512 Q513, Q514 Q515, Q517		TC7S08F UPC812G2 2SA1464 2SA812 2SC1623	RESIS		50, C859 2 (10k, 0.1W)	CKSQYF104Z25 DCH1044 RA8T103J
	Q520 Q519 Q518 D501—D503		2SK508 DTA124EK DTC124EK 1SS220	OTHE	R907, R90		RS1/10S472J DKN1048
CAPA	CITORS						
2	C521, C550 C548 C542 C516 C501 – C507 C515, C517 C528 – C531	7, C509, C510, C512, C514, -C520, C522 - C526, , C534, C535, C538, C539, C544, C546, C547	CCSQCH220J50 CCSQCH680J50 CKSQYB102K50 CKSQYB103K50 CKSQYF104Z25		V ASSY CONDUCTO IC103 IC101, IC1 IC301, IC3 IC306 IC303	.02	NJM2068D NJM4556D NJM7805FA NJM78L05A NJM7905FA

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
•	IC202, IC203,	IC304 IC305	RC78L09A RC79L09A		R201, Other	R202 Resistors	RS2LMFR47J RD1/6PM□□□J
	IC403		TA8413P TC74HC08AP	OTHE	DC.		
	IC307 IC308		TC74HC08AP	OTHE			
	10308		10/411014/11		CN153		5597-08CPB
	IC201 Q108, G Q112—	2201, Q301, Q303, Q401—Q403 Q114	UPC339C 2SA933S 2SB942			BLACK 05A (WIRE) HEAT SINK DRV A	ZWNH1007G26-0-05A DNG1035
	Q107, G	Q203, Q204, Q304, Q305 Q106, Q302	2SC1740S 2SC3327	DRVE	ASS	•	
	QIOI	Q100, Q302	200021	SEMIC	CONDU	CTORS	
	Q109-	Q111, Q306	2SD1267	02			NITA GOOGOT)
	Q202	~	2SK372		IC603	70000	NJM2068D
	Q307, G	308	DTC114YS		IC601,		NJM4556D
	Q404		SLA4020		IC801,	IC802	NJM7805FA
	Q405		SLA4030		IC806 IC803		NJM78L05A NJM7905FA
	D100	D100 D001 D000 D001 D000	11ES2		10000		•
		D108, D201, D202, D301, D302 D102, D203—D206, D211,	1SS254		IC702,	IC804	RC78L09A
			133204		IC703,	IC805	RC79L09A
		D304, D306—D308	MTZJ4.7A		IC807		TC74HC08AP
	D207 D305	D210	MTZJ6.8C		IC808		TC74HC14AP
	פטפע		W11230.6C		IC701		UPC339C
	D109, I	0110	MTZJ8.2C		0000	0701 0001 0002	2SA933S
		D214, D309-D314	RB100A			Q701, Q801, Q803	
					Q612-		2SB942 2SC1740S
RELA'	Υ					Q703, Q704, Q804, Q805	2SC3327
			DCD1000			-Q606, Q802	2SD1267
	RY201		DSR1002		Q609-	-Q611, Q806	23D1201
COILS	3				Q702		2SK372
	L301, I	.302 (47UH)	DTH1134			Q808 -608, D701, D702, D801, D802 D602, D703—D706, D711,	DTC114YS 11ES2 1SS254
CAPA	CITORS	;				D804, D806-D808	155251
	C105_0	C106, C111-C114, C119, C120	CCCCH220J50		D707-		MTZJ4.7A
	C131-		CCCSL101J50		2	2.13	·
	C407, 0		CCCSL470J50		D805		MTZJ6.8C
		C401-C403	CEANP330M50		D609.	D610	MTZJ8.2C
		C208, C214, C215, C322	CEAS010M50			D714, D809-D814	RB100A
	,				ŕ		
		C204, C311, C312, C316, C317,	CEAS101M25	RELA'	Y		
	C406 C201. (202	CEAS331M25		RY70	l	DSR1002
		C110, C115, C118, C121, C124	CEAS470M25	0011.0			
		C304, C306	CEHAQ470M25	COILS			
	C210-	C213	CEJA220M16		L801,	L802 (47UH)	DTH1134
	C134		CEJANP4R7M16	CAPA	CITOR	S	
	C409-	C411	CEJANPR47M50			C606, C611-C614, C619, C620	CCCCH220J50
	C102		CFTNA105J50		,		CCCSL101J50
	C101		CFTXA223J50		C716	-C633	CEANP330M50
	C108,	C109, C116, C117, C122, C123,	CGCYF104Z25			C708, C714, C715, C822	CEAS010M50
	C307-	C310, C313—C315, C404, C405			Civi,	C100, C114, C110, C022	021150101100
	0105	C120 C20F C20C C210 C221	CEDITATEO O 70E		C703,	C704, C811, C812, C816, C817	CEAS101M25
		C130, C205, C206, C318—C321	CKPUYF223Z25 CQMA821J50		C701,	C702	CEAS331M25
	C103,	C104	CQMAOZIJOU		C607,	C610, C615, C618, C621, C624	CEAS470M25
RESIS	STORS				C801	-C804, C806	CEHAQ470M25
	R144		RS1LMF1R8J		C710-	-C713	CEJA220M16
	R144		RS1LMF8R2J		C634		CEJANP4R7M16
	R138		RS2LMF010J		C602		CFTNA105J50
	R314		RS2LMF180J				-
	R225		RS2LMF820J				
	1440						

Mark	No.	Description	Parts No.
	C601 C608, C609, C616, C617, C622, C62 C807—C810, C813—C815		CFTXA223J50 CGCYF104Z25
	C625—C	C630, C705, C706, C818 – C821 C604	CKPUYF223Z25 CQMA821J50
RESIS	TORS		
	R644 R641 R638 R814 R725		RS1LMF1R8J RS1LMF8R2J RS2LMF010J RS2LMF180J RS2LMF820J
	R701, F Other R	R702 Resistors	RS2LMFR47J RD1/6PM□□□J
OTHE	RS		
	CN135	BLACK 05A (WIRE) HEAT SINK DRV A	5597 — 08CPB ZWNH1007G26-0-05A DNG1035
LD-0	OSC AS	SSY	,
SEMIC	CONDUC	CTORS	
	Q1, Q2		2SC3356
COILS	;		
	L1 (33 L2, L3	BNH)	DTH1143 OTL1011
CAPA	CITORS	;	
	C4 C3 C6 C5 C7-C1	1	CCSQCH020D50 CCSQCH100D50 CCSQCH150J50 CCSQCH391J50 CKSQYB682K50
RESIS	TORS		
	VR1 Other F	Resistors	DCP1045 RS1/10S
PSY .	ASSY		
PSY A	assy has i	no service part.	
PU N	IECHAI	NISM ASSY	
CAPA	CITORS	6	
			CCSQCH120J50 CCSQCH470J50 CCSQCH300J50 CCSQCH101J50

6. SERVICE MODE

6.1 HOW TO ENTER SERVICE MODE

- 1. Select CONFIG screen.
- 2. Select F3[DISPLAY].

Press F9[TEST] and SHUTTLE key simultaneously to activate Service mode OSD from Composite out 3.

To see LOG TIME and ROM Version, select Fl[MESSAGE] from CONFIG screen.

6.2 DIFFERENCE BETWEEN VDR-V1000 AND 1000A IN SERVICE ASSEMBLY

ASSY Name	VDR-V1000	VDR-V1000A	Compatibility of 1000A with 1000
VENC	DWX1259	DWX1427	Upper compatible
ADDC	1261	1428	Upper compatible
MPU	1254	1339	Upper compatible
ADEM	1256	1340	Upper compatible
SPDL	1260	1344	Upper compatible
VAR2	1264	1347	Not interchangeable
AMOD	1255	1348	Upper compatible
VAPB	1257	1367	Not interchangeable
VDEC	1258	1368	Not interchangeable
VAR1	1263	1369	Upper compatible
CONTROL UNIT-S	DXX1764	DXX2137	Not interchangeable due to FR1 board
SERVO MECHA	DXX1766	DXX2151	Upper compatible

VAR2, VAPB and VDEC are not interchangeable with olds. If one of video boards is replaced, video characteristics may be changed. DXX2151 AND 1766 are interchangeable.

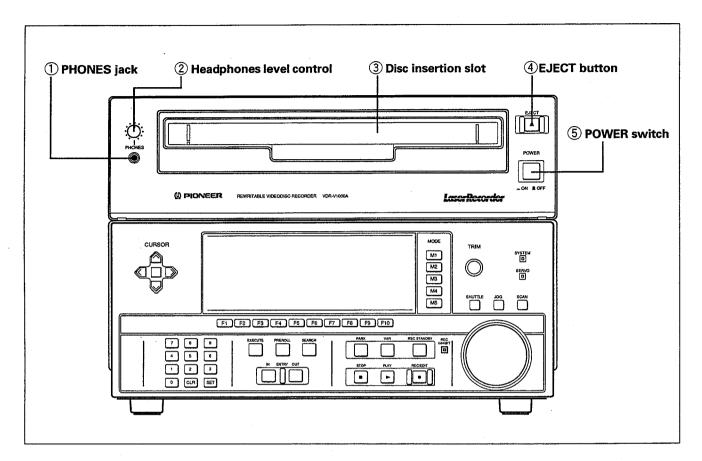
As IC9/11/12/15 are changed in new FR1, CONTROL UNIT-S is not interchangeable.

The following DYW----s are changed.

IC No.	100/1000	100A/1000A
MPU EPROM	DYW1203	DYW1306
	1204	1307
	1205	1308
422IF EPROM	DYW1131	DYW1309
FR1 EPROM	DYW1142 (ICI3)	DYW1310 (ICI4)
	1143 (1014)	
VDEC IC37	DYW1153	DYW1311
FR1 IC11	DYW1140	DYW1240
IC12	1141	1241
IC9	1139	1242

Operating instructions and carton box are changed in VDR-V1000A.

7. PANEL FACILITIES



1 PHONES jack

When stereo headphones are plugged in, the same audio as the monitor output can be monitored through the headphones. The audio level of the headphones is adjusted with the level control above the jack. The audio level is also interlocked with the level adjusted in the A IN OUT MODE.

2 Headphones level control

Turn to adjust the audio level of the headphones.

3 Disc insertion slot

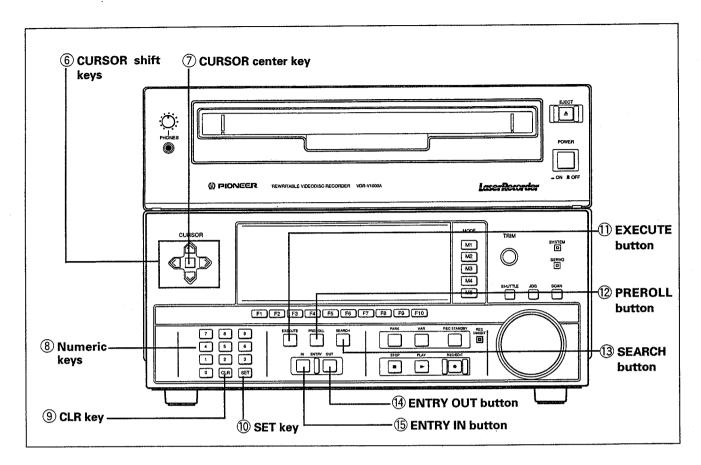
When a disc is partially inserted into the slot, it is automatically drawn into the unit. The door is locked while a disc is inserted inside. Do not force the door to open, or it will be damaged.

4 EJECT button

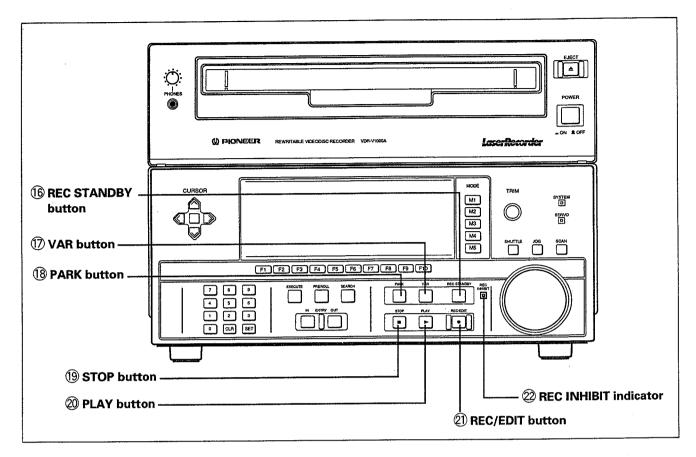
Press the eject the disc. This button is illuminated when no disc is present inside the slot. This button is enabled in any operation mode. If the button is pressed while the disc is rotating, ejection will take about 10 seconds because the disc should be stopped before being ejected.

5 POWER switch

Press in to turn the power ON. Press again to turn it OFF. When the power is turned ON, the self-illuminating switches light in sequence, then a screen appears on the EL display.



- 6 CURSOR shift keys
- 7 CURSOR center key
- 8 Numeric keys
- 9 CLR key
- 10 SET key
- **① EXECUTE button**
- 12 PREROLL button
- (13) SEARCH button
- (4) ENTRY OUT button
- (5) ENTRY IN button



16 REC STANDBY button

Press to initiate the record-standby mode. If the input has been selected by F4 (REC REF) in the V IN OUT MODE, pressing this button changes the output to the EE mode and changes the disc rotation synchronization phase from the reference signal input through the EXT REF connector (or built-in sync generator in case this input is not present) to the recording video signal input through the VIDEO INPUT connectors. If SYNCHRO has been selected, pressing this button changes the output to the EE mode, but the synchronization phase is provided by the synchronizer function of the video processor so no time is required for disc rotation synchronization.

(17) VAR button

Press this button to initiate the variable-speed playback mode in a speed range of -1x to +3x of the normal playback speed. If the playback speed has previously been set with the SEARCH dial, playback starts at the preset speed.

18 PARK button

Press to stop the disc rotation. To prevent operation mistakes, this button is enabled only when a still, paused image is being displayed (with the STOP button lighted).

This button can be disabled by setting the F4 (PARK) and F5 (LD START) keys in the FUNC MODE to **DISABLE** or **AUTO**

(19) STOP button

During playback or recording, press to stop the execution of a function other than playback or recording. Pressing the button during playback changes the video to a still image. Pressing the button during recording in INPUT mode puts the unit in record standby mode and switches the output to EE mode. Pressing the button again switches the output to the still image of the playback video. Pressing the button yet again releases the record standby mode.

20 PLAY button

Press to start normal playback.

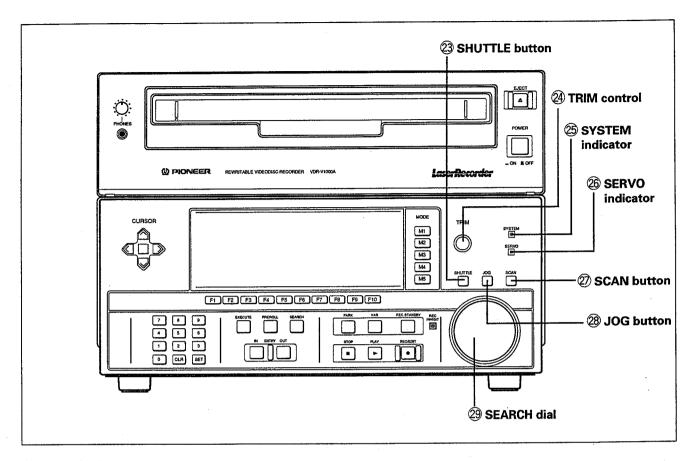
21 REC/EDIT button

Recording: To start recording, press the PLAY button while holding this button pressed.

Editing: When editing in the EDIT mode, press this button after having set the IN point to start editing.

22 REC INHIBIT indicator

This indicator lights when the inserted disc has been set to record inhibit mode.



23 SHUTTLE button

Press to initiate the shuttle mode. When this button is pressed, the video changes to a still image, and the still image transition speed can be adjusted with the SEARCH dial.

The maximum speed can be set with the F3 (SHTL MAX) key in the FUNC MODE.

24)TRIM control

Reffer to the section 1-3 "LIST OF KEY AND BUTTON CONTENTS IN DIFFERENT MODES"

25 SYSTEM indicator

This indicator flashes to warn that the unit is operating abnormally. When the MESSAGE MODE is entered while this indicator is flashing, the EL display shows an error message and the detailed contents of the error is displayed in VIDEO 3 output.

26 SERVO indicator

This indicator lights when the disc rotation starts or stops, or during rotation synchronization pull-in operation.

② SCAN button

Press to initiate the scan mode. Scan mode allows you to search for a desired image at high speed by turning the SEARCH dial.

A still image is displayed when the SEARCH dial is not being turned.

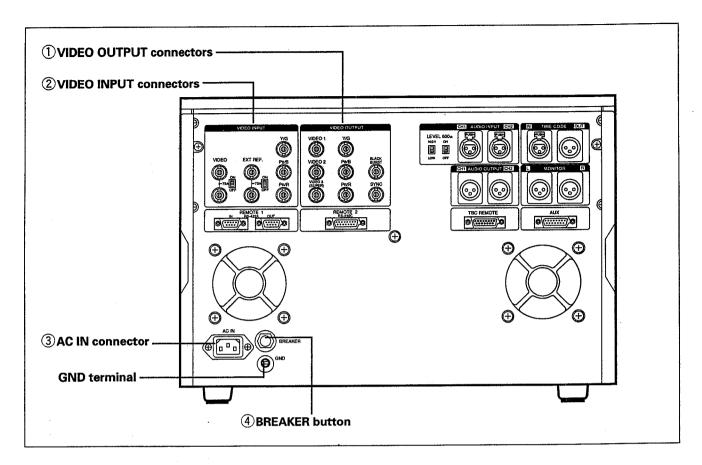
28 JOG button

Press to initiate the jog mode. Jog mode allows you to advance or search frame by frame by turning the SEARCH dial.

A still image is displayed when the SEARCH dial is not being turned.

29 SEARCH dial

Turn to play the video images in jog, shuttle, scan or variable-speed playback mode while varying the playback speed and direction at the same time. Turn the dial clockwise to play or move in the forward direction, and turn it counterclockwise to play or move in the reverse direction.



1 VIDEO OUTPUT connectors VIDEO 1, 2 and 3 output connectors (BNC)

These connectors output composite video signals. Connect them to the video input connectors of a video recorder or monitor. With the VIDEO 3 signal, you can superimpose data such as the frame number and time number on the picture.

Y/G, P_B/B and P_R/R (component video) output connectors (BNC)

The outputs from these connectors are switchable between the Y, P_B and P_R signals and the analog GBR signals.

BLACK BURST output connector (BNC)

This outputs the signal from the built-in black burst generator.

SYNC output connector (BNC)

This outputs the composite sync signal from the built-in sync generator.

② VIDEO INPUT connectors

VIDEO input connectors (BNC) with 75-ohm termination switch

These connectors accept a composite video signal input. One of the two connectors can be used as through output for bridged connection to other equipment. In this case, set the 75-ohm termination switch to OFF.

EXT REF. input connectors (BNC) with 75-ohm termination switch

These connectors accept external reference video or composite sync signal input.

One of the two connectors can be used as a through output for bridged connection to other equipment. In this case, set the 75-ohm termination switch to OFF.

Y/G, P_B/B and P_R/R (component video) input connectors (BNC)

Input terminals for the Y, PB and PR signals or the analog GBR signals.

3 AC IN connector

This is the input connector of AC mains power.

4 BREAKER button

Circuit breaker for the power supply primary circuit.

In case the circuit breaker is turned OFF

The BREAKER button comes out and the primary side of the power supply is turned OFF. Press the POWER switch to OFF and consult your nearest after-sale service agent.

8. SPECIFICATIONS

_			

Video system

•	
Recording/playback system	Magneto-Optical (MO) system
Light source	Laser diode
Optical head configuration	2 separate heads
Poording modium	30 cm disc cartridge
Recording time	Motion pictures: 32 minutes
Recording time	Still pictures: 57600 frames
Street of the contract	Frame frequency (1800 rpm) - CAV
Disc rotation speed	Average 0.3 second
Access time	Average 0.3 second
Editing accuracy	
Power supply	120 V AC, 50/60 Hz
Power consumption	1/0 VV
Dimensions	436 x 321 x 649 mm (WXHXD)
	17-3/16 x 12-5/8 x 27-5/16 in (WXHXD)
Weight	42 kg (92 lb 10 oz)
Operating temperature	+5 to +35°C (+41 to +95°F)
Storage temperature	-20 to +60°C (-4 to +140°F)
Storage temperature	20 to 80%
Storage numicity	
Pagarding format	Time-compression integrated analog components
necording format	(Compression ratios: Y=1.2, PB,PR=7.2)
4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.1 MHz +6 dB
	4.1 WILLZ _6 UD
S/N (frame number : 20000)	47 JD /commont)
Luminance	
	44 dB (composite)
Chroma AM	
Chroma PM	50 dB
DG	5 %
DP	3 DEG
K factor	
YC delay	±50 nsec
Input video level (VIDEO input	t only)
Variation range	±3 dB
variation range	±6 dB
Output variation ranges	±3 dB
Video level	- D C1
Chroma level	±3 dB
Setup level	±15 IRE (however, dark clip is –10 IRE)
Hue	±15° (VIDEO output only)
System SC phase	360 DEG (VIDEO output only)
System sync phase	+3 to –1 μsec
YC delay	±100 nsec
,	
Recording format	Time-compression integrated PCM
Number of channels	2
Bandwidth	15 kHz
Dynamic range	
Headroom	20 dB
1 16 GUI OUTT	_ee dR

Audio system

Input/Output Signals

Video inputs

<connector Name></connector 	<signal name=""></signal>	<level></level>	<impedance></impedance>
VIDEO	Composite video	1 Vp-p	75-ohm ON/OFF
EXT REF*	EXT REF* Video		75-ohm ON/OFF
	Composite sync	4 Vp-p	75-ohm ON/OFF
Y*	Component Iuminance	1 Vp-p negative sync	75-ohm
P _B , P _R *	Component color differences	0.7 Vp-p	75-ohm
G, B, R*	Analog GBR	0.7 Vp-p	75-ohm

Video outputs

VIDEO 1, 2	Composite video	1 Vp-p	75-ohm
VIDEO 3	Composite video (superimposition possible)	1 Vp-p	75-ohm
Υ*	Component Iuminance	1 Vp-p negative sync	75-ohm
PB, PR*	Component color differences	0.7 Vp-p	75-ohm
G, B, R*	Analog GBR	0.7 Vp-p	75-ohm
BLACK BURST	Black burst	0.286 Vp-p 75-ohm (both B, S)	
SYNC	Composite sync	4 Vp-p	75-ohm

Audio

INPUT CH1, 2	Audio input	+4/–20 dBm switchable	600-ohm/high- impedance switchable
OUTPUT CH 1, 2	Audio output	+4 dBm (nominal), variable	Low-impedance
MONITOR L, R	Monitor output (CH1/CH2 switchable)	. +4 dBm (nominal), variable	Low-impedance
PHONES	Headphones output	Variable with PHONES control	

* NOTE:

The EXT REF input and input/output signals are switchable between Y/PB/PR and G/B/R on the control panel.



Time code (valid only when optional board is installed)

TIME CODE IN	SMPTE input	1.0 ~ 5.0 V p-p	10 k ohm
TIME CODE OUT	SMPTE output	2.4 Vp-p	Low impedance

Remote connectors

	I	
REMOTE 1	RS-422A interface	Input/output in compliance with 9-pin serial interface
REMOTE 2	RS-232C interface	Compatible with LD-V8000 serial interface
TBC REMOTE	TBC remote control	In compliance with BVW series
AUX	Reserved for future system expansion	

Supplied accessories

Operating Instructions x 1 Power cord x 1 RS-422A cable x 1 RS-232C connector (15P) x 1

Optional accessories

- 1. Time code board (VDA-V004)
- 2. Rack mount kit (VDA-V001)

NOTE:

Specifications and design subject to possible modification without notice, due to improvements.

Information on Servo mechanism Assembly

1. DXX2151

From VDR-V1000A, DXX2151 is used in place of DXX1766, however, DXX2151 is compatible with DXX1766.

2. CN991(9p conector) on MPU

In VDR-V1000A, after replacing the Servo mecha Assy with DXX2151 or 1766, make sure that additional shorting connector is not inserted in CN991 on MPU. CN991 is located in the front side and center position of MPU board. If the shorting connector is inserted, remove it.

Compatibility of VDR-V1000A Slot-in board assy

The following PCB assemblies are upper-compatible with VDR-V1000 and can be used in VDR-V1000.

ADDC(DWX1428)/MPU(DWX1339)/ADEM(DWX1340)/SPDL(DWX1344) AMOD(DWX1348)

ROM Version No. of VDR-V1000A

PC	:	1.86	or	greater
CC	:	1.86		greater
EX	:	1.87 1.86		
IF	:	1.86		
FP	:	1.87		